

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: INVUE

Report Number: P822994

Luminaire Tested: **MSA-SA2A-735-U-SLR-HSS**

Issue Date: 04/10/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P822994  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 04/10/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: MSA-SA2A-735-U-SLR-HSS  
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS  
EACH AND SPILL LIGHT ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5401.4 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

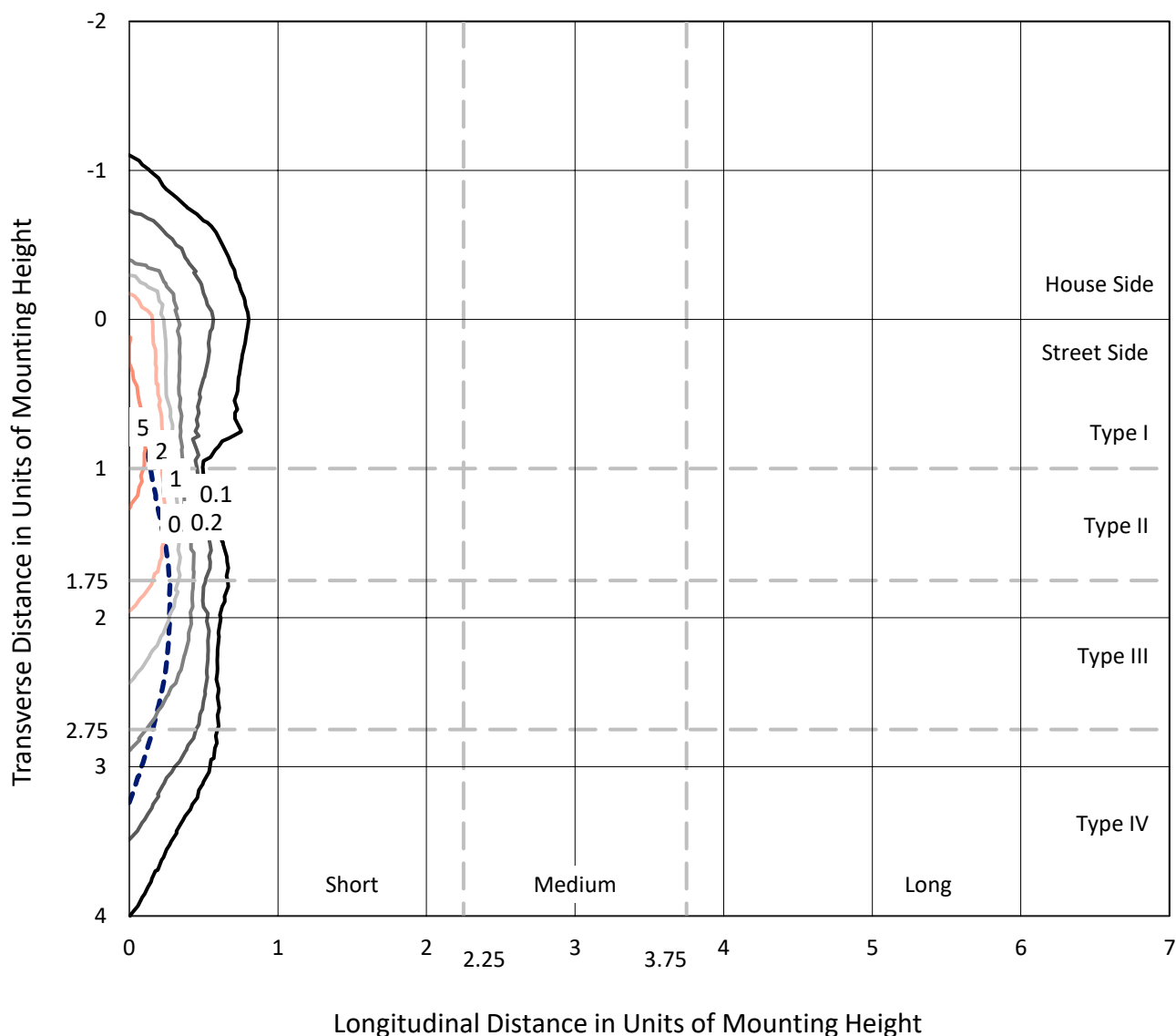
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

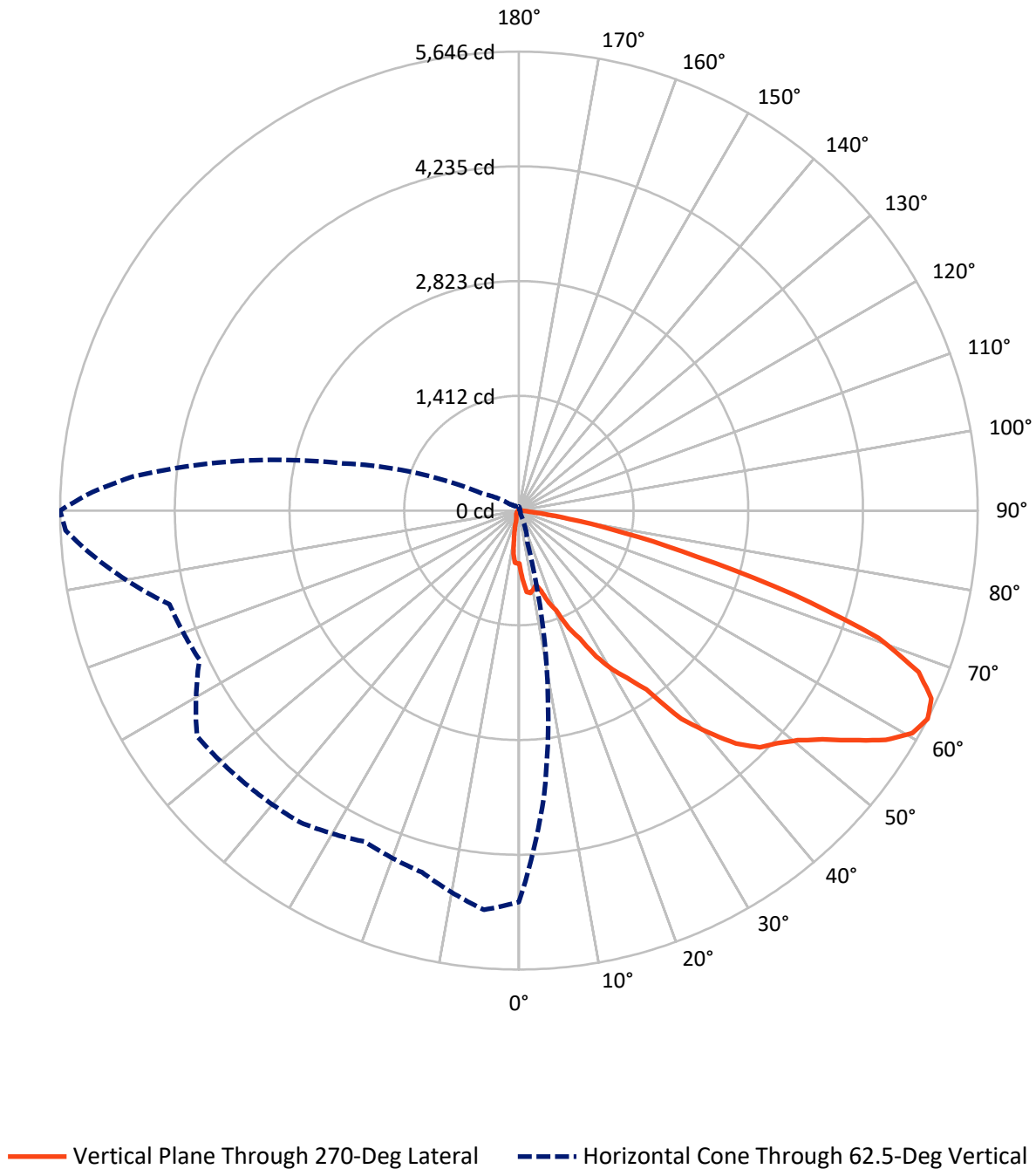


Based on 15 foot mounting height. Maximum calculated value = 7.7 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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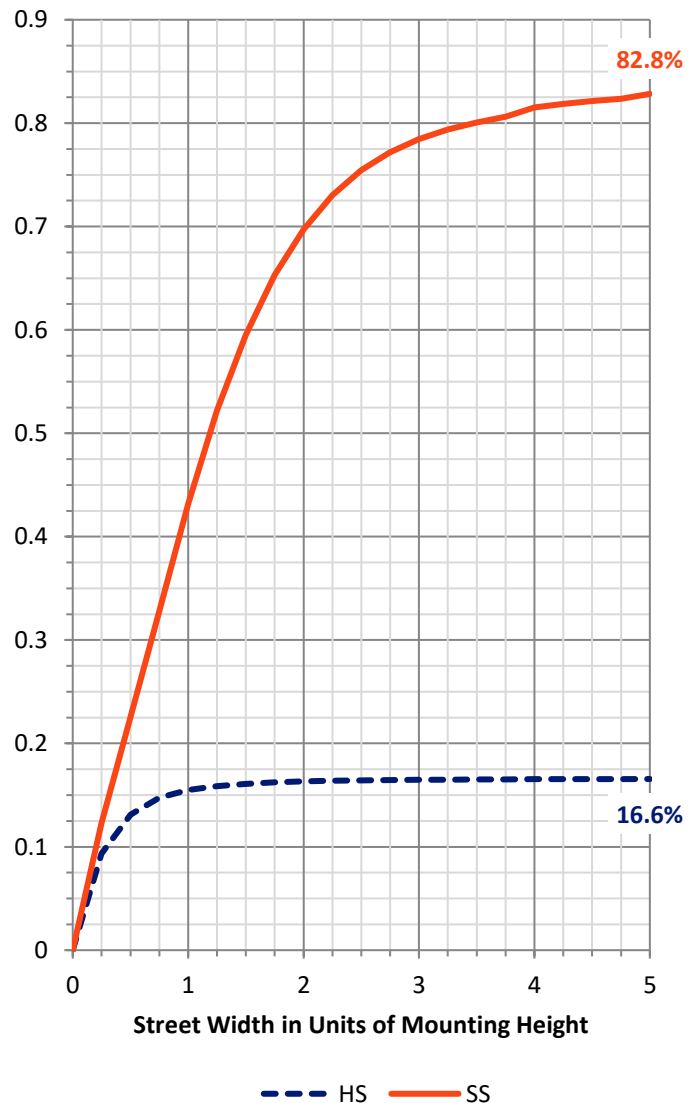
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 902.0    | 0.0    | 902.0  |
|                    | % Fixture | 16.7     | 0.0    | 16.7   |
| <b>Street Side</b> | Lumens    | 4499.5   | 0.0    | 4499.5 |
|                    | % Fixture | 83.3     | 0.0    | 83.3   |
| <b>Total</b>       | Lumens    | 5401.4   | 0.0    | 5401.4 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 72.7   | 1.3       |
| 10°-20°   | 190.0  | 3.5       |
| 20°-30°   | 307.0  | 5.7       |
| 30°-40°   | 514.3  | 9.5       |
| 40°-50°   | 840.7  | 15.6      |
| 50°-60°   | 1244.5 | 23.0      |
| 60°-70°   | 1428.7 | 26.5      |
| 70°-80°   | 706.4  | 13.1      |
| 80°-90°   | 97.0   | 1.8       |
| 90°-100°  | 0.0    | 0.0       |
| 100°-110° | 0.0    | 0.0       |
| 110°-120° | 0.0    | 0.0       |
| 120°-130° | 0.0    | 0.0       |
| 130°-140° | 0.0    | 0.0       |
| 140°-150° | 0.0    | 0.0       |
| 150°-160° | 0.0    | 0.0       |
| 160°-170° | 0.0    | 0.0       |
| 170°-180° | 0.0    | 0.0       |
| 0°-90°    | 5401.4 | 100.0     |
| 0°-180°   | 5401.4 | 100.0     |

**Coefficient of Utilization**



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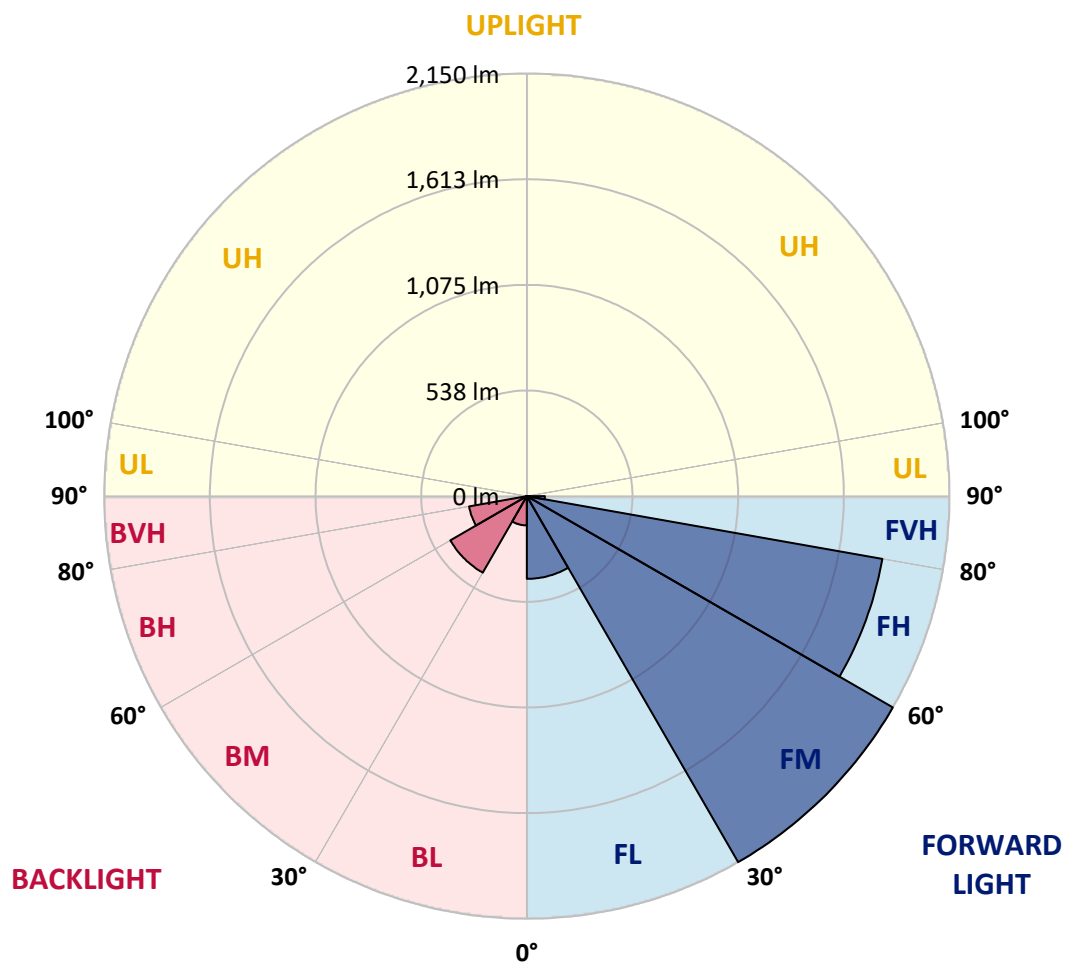
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 420.8  | 7.8       |                         |      |         |
| FM   | (30°-60°)   | 2150.0 | 39.8      |                         |      |         |
| FH   | (60°-80°)   | 1836.7 | 34.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 91.9   | 1.7       |                         |      | G1/100  |
| BL   | (0°-30°)    | 148.9  | 2.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 449.4  | 8.3       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 298.4  | 5.5       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 5.2    | 0.1       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|        | 0°     | 2.5°   | 5°     | 7.5°   | 10°    | 12.5°  | 15°    | 17.5° | 20°   | 22.5° | 25°   |
|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|
| 0°     | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9 | 650.9 | 650.9 | 650.9 |
| 2.5°   | 863.0  | 873.8  | 884.3  | 864.2  | 844.2  | 824.3  | 804.3  | 786.4 | 768.5 | 750.3 | 732.5 |
| 5°     | 1110.6 | 1090.9 | 1071.2 | 1044.0 | 1017.0 | 989.9  | 962.8  | 950.1 | 937.6 | 924.9 | 912.3 |
| 7.5°   | 1196.8 | 1161.7 | 1126.3 | 1102.3 | 1078.6 | 1054.6 | 1030.5 | 992.6 | 954.5 | 916.6 | 878.4 |
| 10°    | 1129.1 | 1091.8 | 1054.2 | 1033.3 | 1012.4 | 991.4  | 970.4  | 923.4 | 876.0 | 828.8 | 781.4 |
| 12.5°  | 1160.1 | 1119.8 | 1079.4 | 1036.4 | 993.3  | 950.1  | 907.1  | 871.0 | 834.7 | 798.7 | 762.3 |
| 15°    | 1181.7 | 1135.5 | 1089.0 | 1039.8 | 990.5  | 941.3  | 892.0  | 849.5 | 807.3 | 764.8 | 722.4 |
| 17.5°  | 1308.2 | 1242.1 | 1175.9 | 1100.1 | 1024.4 | 948.6  | 872.9  | 823.6 | 774.6 | 725.4 | 676.2 |
| 20°    | 1470.8 | 1376.9 | 1282.7 | 1180.2 | 1077.7 | 975.1  | 872.5  | 811.3 | 750.0 | 688.7 | 627.5 |
| 22.5°  | 1659.8 | 1542.5 | 1425.0 | 1298.4 | 1172.1 | 1045.6 | 919.1  | 831.0 | 743.0 | 654.9 | 566.9 |
| 25°    | 1850.2 | 1744.2 | 1638.3 | 1468.0 | 1297.8 | 1127.2 | 956.9  | 845.1 | 733.1 | 621.4 | 509.3 |
| 27.5°  | 2193.7 | 2004.4 | 1815.0 | 1598.3 | 1381.8 | 1165.1 | 948.4  | 820.3 | 692.2 | 563.8 | 435.7 |
| 30°    | 2418.5 | 2272.9 | 2126.9 | 1840.7 | 1554.6 | 1268.2 | 981.9  | 819.6 | 657.3 | 494.8 | 332.5 |
| 32.5°  | 2687.3 | 2474.2 | 2260.9 | 1950.2 | 1639.5 | 1328.9 | 1018.2 | 827.6 | 636.7 | 446.1 | 255.3 |
| 35°    | 2989.4 | 2757.5 | 2525.7 | 2132.2 | 1738.7 | 1344.9 | 951.4  | 766.7 | 582.0 | 397.2 | 212.4 |
| 37.5°  | 3522.9 | 3135.0 | 2747.1 | 2288.3 | 1829.2 | 1370.5 | 911.4  | 726.9 | 542.2 | 357.7 | 173.0 |
| 40°    | 3825.9 | 3455.6 | 3085.2 | 2511.9 | 1938.6 | 1365.3 | 792.0  | 628.1 | 464.6 | 300.8 | 137.0 |
| 42.5°  | 4220.1 | 3750.2 | 3280.1 | 2639.3 | 1998.6 | 1357.8 | 717.1  | 565.6 | 414.1 | 262.3 | 110.9 |
| 45°    | 4453.7 | 3921.4 | 3389.1 | 2694.7 | 2000.4 | 1306.1 | 611.8  | 480.6 | 349.4 | 218.3 | 87.1  |
| 47.5°  | 4601.3 | 4067.4 | 3533.5 | 2788.0 | 2042.9 | 1297.4 | 552.1  | 431.3 | 310.7 | 190.0 | 69.3  |
| 50°    | 4676.1 | 4140.6 | 3604.8 | 2838.8 | 2072.8 | 1306.4 | 540.3  | 420.2 | 299.9 | 179.8 | 59.4  |
| 52.5°  | 4754.0 | 4237.6 | 3720.9 | 2926.9 | 2132.8 | 1338.7 | 544.7  | 422.1 | 299.9 | 177.4 | 54.8  |
| 55°    | 4911.3 | 4402.0 | 3892.4 | 3053.1 | 2213.8 | 1374.5 | 535.1  | 414.5 | 293.7 | 172.7 | 52.1  |
| 57.5°  | 5104.6 | 4560.3 | 4015.6 | 3145.5 | 2275.3 | 1405.2 | 535.1  | 413.8 | 292.5 | 170.9 | 49.6  |
| 60°    | 5068.0 | 4477.2 | 3886.0 | 3041.8 | 2197.5 | 1352.9 | 508.7  | 393.2 | 278.0 | 162.6 | 47.1  |
| 62.5°  | 4816.5 | 4175.1 | 3533.5 | 2753.3 | 1972.7 | 1192.4 | 412.0  | 319.9 | 227.9 | 135.5 | 43.4  |
| 65°    | 4520.9 | 3840.1 | 3159.1 | 2441.0 | 1722.7 | 1004.6 | 286.4  | 224.8 | 162.8 | 101.3 | 39.4  |
| 67.5°  | 4164.9 | 3438.9 | 2712.9 | 2074.3 | 1436.1 | 797.4  | 158.8  | 128.1 | 97.3  | 66.2  | 35.4  |
| 70°    | 3547.3 | 2797.9 | 2048.1 | 1557.4 | 1066.9 | 576.1  | 85.2   | 72.0  | 58.8  | 45.6  | 32.3  |
| 72.5°  | 2663.0 | 1976.4 | 1289.8 | 979.8  | 670.0  | 360.0  | 49.8   | 45.0  | 39.7  | 34.7  | 29.5  |
| 75°    | 1812.0 | 1297.4 | 783.0  | 596.1  | 409.5  | 222.7  | 35.7   | 33.3  | 30.5  | 28.0  | 25.2  |
| 77.5°  | 1231.9 | 891.1  | 550.2  | 420.0  | 289.7  | 159.5  | 29.3   | 27.7  | 26.2  | 24.3  | 22.8  |
| 80°    | 769.1  | 526.5  | 283.9  | 218.6  | 153.1  | 87.8   | 22.2   | 21.2  | 20.3  | 19.1  | 18.2  |
| 82.5°  | 537.9  | 321.8  | 105.6  | 82.5   | 59.4   | 36.1   | 12.9   | 13.2  | 13.5  | 13.5  | 13.9  |
| 85°    | 225.7  | 121.9  | 18.2   | 15.4   | 12.7   | 9.9    | 7.1    | 7.7   | 8.7   | 9.2   | 9.9   |
| 87.5°  | 4.0    | 2.1    | 0.0    | 0.7    | 1.6    | 2.1    | 2.8    | 3.7   | 4.3   | 5.2   | 5.9   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  | 2.5° | 5°  | 7.5° | 10° | 12.5° | 15° | 17.5° | 20° | 22.5° | 25° |
|--------|-----|------|-----|------|-----|-------|-----|-------|-----|-------|-----|
| 112.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 115°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 117.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 120°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 122.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 125°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 127.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 130°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 132.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 135°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 137.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 140°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 142.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 145°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 147.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 150°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 152.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 155°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 157.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 160°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 162.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 165°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 167.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 170°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 172.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 175°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 177.5° | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 180°   | 0.0 | 0.0  | 0.0 | 0.0  | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |



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**CANDELA DISTRIBUTION (continued):**

|        | 27.5° | 30°   | 32.5° | 35°   | 37.5° | 40°   | 42.5° | 45°   | 47.5° | 50°   | 52.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 650.9 | 650.9 | 650.9 | 650.9 | 650.9 | 650.9 | 650.9 | 650.9 | 650.9 | 650.9 | 650.9 |
| 2.5°   | 737.1 | 741.7 | 746.0 | 750.7 | 747.0 | 743.6 | 739.9 | 736.2 | 730.7 | 725.4 | 719.8 |
| 5°     | 896.9 | 881.5 | 866.1 | 850.7 | 827.4 | 803.9 | 780.2 | 756.8 | 754.0 | 751.2 | 748.2 |
| 7.5°   | 842.4 | 806.4 | 770.1 | 734.0 | 700.2 | 666.3 | 632.5 | 598.6 | 588.1 | 578.0 | 567.4 |
| 10°    | 753.8 | 726.0 | 698.0 | 670.3 | 646.0 | 621.4 | 597.0 | 572.4 | 546.8 | 521.2 | 495.4 |
| 12.5°  | 733.4 | 704.5 | 675.2 | 646.3 | 624.1 | 601.9 | 579.7 | 557.6 | 529.0 | 500.4 | 471.7 |
| 15°    | 691.0 | 659.5 | 628.1 | 596.7 | 567.2 | 537.6 | 507.7 | 478.2 | 443.7 | 409.2 | 374.7 |
| 17.5°  | 638.9 | 601.9 | 564.6 | 527.5 | 488.6 | 449.9 | 411.0 | 372.3 | 332.5 | 293.1 | 253.4 |
| 20°    | 577.0 | 526.5 | 475.7 | 425.2 | 377.2 | 329.1 | 280.8 | 232.8 | 207.8 | 183.2 | 158.3 |
| 22.5°  | 501.6 | 436.0 | 370.7 | 305.1 | 265.7 | 226.0 | 186.6 | 146.9 | 136.1 | 125.3 | 114.5 |
| 25°    | 435.1 | 360.9 | 286.7 | 212.4 | 187.5 | 162.6 | 137.6 | 112.7 | 107.8 | 102.6 | 97.6  |
| 27.5°  | 365.7 | 296.2 | 226.3 | 156.4 | 142.3 | 127.8 | 113.7 | 99.1  | 95.8  | 92.7  | 89.2  |
| 30°    | 280.5 | 228.4 | 176.1 | 124.1 | 114.9 | 105.6 | 96.0  | 86.8  | 85.2  | 83.5  | 81.9  |
| 32.5°  | 217.3 | 179.2 | 141.3 | 103.1 | 97.9  | 92.7  | 87.5  | 82.2  | 79.7  | 77.3  | 74.5  |
| 35°    | 181.7 | 151.2 | 120.4 | 89.6  | 85.9  | 81.9  | 78.2  | 74.2  | 71.7  | 68.9  | 66.5  |
| 37.5°  | 150.5 | 128.4 | 105.9 | 83.5  | 79.5  | 75.5  | 71.1  | 67.1  | 65.3  | 63.4  | 61.6  |
| 40°    | 124.1 | 111.1 | 98.2  | 85.2  | 79.5  | 73.6  | 67.7  | 61.9  | 60.4  | 58.8  | 57.3  |
| 42.5°  | 102.6 | 94.2  | 85.6  | 77.3  | 72.9  | 68.9  | 64.7  | 60.4  | 58.2  | 55.7  | 53.6  |
| 45°    | 82.8  | 78.2  | 73.9  | 69.3  | 69.6  | 69.9  | 69.9  | 70.2  | 64.7  | 58.8  | 53.3  |
| 47.5°  | 67.1  | 64.9  | 62.5  | 60.4  | 62.8  | 65.3  | 67.4  | 69.9  | 64.0  | 58.2  | 52.1  |
| 50°    | 57.6  | 56.1  | 54.2  | 52.4  | 54.8  | 57.6  | 60.0  | 62.5  | 60.0  | 57.9  | 55.4  |
| 52.5°  | 52.6  | 50.5  | 48.4  | 46.2  | 47.1  | 48.4  | 49.3  | 50.2  | 50.2  | 50.2  | 50.2  |
| 55°    | 49.6  | 47.4  | 45.0  | 42.5  | 41.5  | 40.3  | 39.4  | 38.2  | 36.6  | 35.4  | 33.9  |
| 57.5°  | 47.1  | 44.6  | 41.8  | 39.4  | 37.9  | 36.1  | 34.5  | 32.6  | 31.1  | 29.3  | 27.7  |
| 60°    | 44.6  | 42.2  | 39.4  | 37.0  | 35.4  | 33.9  | 32.0  | 30.5  | 28.6  | 27.1  | 25.2  |
| 62.5°  | 41.3  | 39.1  | 37.0  | 34.7  | 33.3  | 32.0  | 30.5  | 29.0  | 27.1  | 25.2  | 23.1  |
| 65°    | 37.5  | 36.1  | 34.2  | 32.3  | 30.8  | 29.3  | 27.7  | 26.2  | 24.3  | 22.8  | 21.0  |
| 67.5°  | 34.2  | 32.6  | 31.4  | 29.9  | 28.0  | 26.5  | 24.6  | 22.8  | 21.5  | 20.3  | 18.8  |
| 70°    | 31.4  | 30.2  | 29.3  | 28.0  | 26.2  | 24.6  | 22.8  | 21.0  | 20.0  | 18.8  | 17.9  |
| 72.5°  | 28.6  | 27.7  | 26.5  | 25.5  | 24.0  | 22.5  | 21.0  | 19.4  | 18.4  | 17.5  | 16.6  |
| 75°    | 24.6  | 24.0  | 23.4  | 22.8  | 21.2  | 19.7  | 17.9  | 16.3  | 16.0  | 15.7  | 15.4  |
| 77.5°  | 22.2  | 21.9  | 21.2  | 20.6  | 19.1  | 17.5  | 16.0  | 14.4  | 14.8  | 15.1  | 15.1  |
| 80°    | 18.2  | 18.2  | 17.9  | 17.9  | 16.6  | 15.4  | 13.9  | 12.7  | 13.2  | 14.2  | 14.8  |
| 82.5°  | 13.9  | 13.9  | 13.9  | 13.9  | 12.7  | 11.4  | 10.2  | 8.9   | 9.9   | 10.4  | 11.4  |
| 85°    | 9.5   | 9.2   | 8.9   | 8.7   | 7.7   | 7.1   | 6.1   | 5.2   | 6.4   | 7.4   | 8.7   |
| 87.5°  | 5.9   | 6.1   | 6.1   | 6.1   | 5.5   | 4.7   | 4.0   | 3.1   | 3.7   | 4.0   | 4.7   |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 95°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 97.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 100°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 102.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 105°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 107.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 110°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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CATALOG NUMBER: MSA-SA2A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 27.5° | 30° | 32.5° | 35° | 37.5° | 40° | 42.5° | 45° | 47.5° | 50° | 52.5° |
|--------|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 112.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 115°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 117.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 120°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 122.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 125°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 127.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 130°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 132.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 135°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 137.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 140°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 142.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 145°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 147.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 150°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 152.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 155°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 157.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 160°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 162.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 165°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 167.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 170°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 172.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 175°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 177.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |
| 180°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   |

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CATALOG NUMBER: MSA-SA2A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 55°   | 57.5° | 60°   | 62.5° | 65°   | 67.5° | 70°   | 72.5° | 75°   | 77.5° | 80°   |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°     | 650.9 | 650.9 | 650.9 | 650.9 | 650.9 | 650.9 | 650.9 | 650.9 | 650.9 | 650.9 | 650.9 |
| 2.5°   | 714.4 | 705.1 | 695.8 | 686.3 | 677.1 | 655.5 | 634.0 | 612.4 | 590.8 | 606.8 | 622.6 |
| 5°     | 745.5 | 727.6 | 709.4 | 691.5 | 673.4 | 665.3 | 657.7 | 649.7 | 641.7 | 642.9 | 644.4 |
| 7.5°   | 557.0 | 545.3 | 533.6 | 521.6 | 509.9 | 507.4 | 505.3 | 502.8 | 500.4 | 505.6 | 510.5 |
| 10°    | 469.8 | 453.5 | 436.9 | 420.6 | 403.9 | 395.0 | 386.1 | 377.2 | 368.3 | 367.3 | 366.1 |
| 12.5°  | 443.1 | 418.1 | 393.5 | 368.5 | 343.6 | 324.2 | 304.8 | 285.4 | 266.1 | 267.6 | 269.1 |
| 15°    | 340.2 | 315.3 | 290.7 | 265.7 | 240.8 | 225.1 | 209.1 | 193.4 | 177.4 | 172.7 | 168.2 |
| 17.5°  | 213.7 | 195.2 | 176.7 | 157.9 | 139.5 | 134.2 | 129.3 | 124.1 | 118.9 | 117.3 | 115.8 |
| 20°    | 133.3 | 125.3 | 117.3 | 109.0 | 101.0 | 99.8  | 98.6  | 97.3  | 96.0  | 97.0  | 97.9  |
| 22.5°  | 103.8 | 100.3 | 96.7  | 93.3  | 89.6  | 88.4  | 87.1  | 85.9  | 84.7  | 85.6  | 86.2  |
| 25°    | 92.4  | 89.9  | 87.5  | 85.0  | 82.5  | 81.3  | 79.7  | 78.5  | 77.0  | 77.6  | 78.5  |
| 27.5°  | 85.9  | 83.8  | 81.6  | 79.5  | 77.3  | 75.1  | 73.3  | 71.1  | 68.9  | 70.2  | 71.1  |
| 30°    | 80.0  | 77.6  | 75.5  | 72.9  | 70.5  | 68.4  | 66.2  | 63.7  | 61.6  | 62.8  | 64.0  |
| 32.5°  | 72.0  | 69.9  | 67.4  | 65.3  | 62.8  | 61.6  | 60.4  | 58.8  | 57.6  | 58.5  | 59.2  |
| 35°    | 63.7  | 61.9  | 60.4  | 58.5  | 56.6  | 55.4  | 54.5  | 53.3  | 52.1  | 52.4  | 52.9  |
| 37.5°  | 59.7  | 57.6  | 55.4  | 53.3  | 51.1  | 50.5  | 49.8  | 49.0  | 48.4  | 48.4  | 48.4  |
| 40°    | 55.7  | 53.6  | 51.4  | 49.0  | 46.8  | 45.8  | 45.0  | 44.1  | 43.1  | 43.1  | 43.1  |
| 42.5°  | 51.1  | 49.0  | 46.8  | 44.6  | 42.5  | 41.5  | 40.3  | 39.4  | 38.2  | 38.2  | 38.2  |
| 45°    | 47.4  | 45.3  | 43.4  | 41.3  | 39.1  | 37.5  | 36.1  | 34.2  | 32.6  | 32.3  | 32.0  |
| 47.5°  | 46.2  | 43.1  | 40.1  | 37.0  | 33.9  | 32.3  | 30.8  | 29.0  | 27.4  | 27.1  | 26.8  |
| 50°    | 52.9  | 46.8  | 40.6  | 34.5  | 28.3  | 27.1  | 25.9  | 24.6  | 23.4  | 22.8  | 22.5  |
| 52.5°  | 50.2  | 43.7  | 37.3  | 30.8  | 24.3  | 23.4  | 22.5  | 21.5  | 20.6  | 20.0  | 19.4  |
| 55°    | 32.3  | 29.5  | 27.1  | 24.3  | 21.5  | 21.0  | 20.3  | 19.4  | 18.8  | 18.2  | 17.5  |
| 57.5°  | 25.9  | 24.3  | 23.1  | 21.5  | 20.0  | 19.4  | 18.8  | 17.9  | 17.2  | 16.3  | 15.7  |
| 60°    | 23.4  | 22.2  | 21.0  | 19.7  | 18.4  | 17.9  | 17.2  | 16.6  | 16.0  | 15.1  | 14.4  |
| 62.5°  | 21.2  | 20.3  | 19.4  | 18.4  | 17.5  | 17.0  | 16.3  | 15.7  | 15.1  | 14.2  | 13.2  |
| 65°    | 19.1  | 18.4  | 17.9  | 17.2  | 16.6  | 16.0  | 15.4  | 14.4  | 13.9  | 12.9  | 12.0  |
| 67.5°  | 17.5  | 17.2  | 17.0  | 16.6  | 16.3  | 15.7  | 14.8  | 14.2  | 13.2  | 12.3  | 11.1  |
| 70°    | 16.6  | 16.6  | 16.6  | 16.3  | 16.3  | 15.7  | 14.8  | 14.2  | 13.2  | 12.0  | 11.1  |
| 72.5°  | 15.7  | 16.0  | 16.3  | 16.3  | 16.6  | 15.7  | 14.8  | 13.9  | 12.9  | 11.7  | 10.8  |
| 75°    | 15.1  | 15.4  | 15.7  | 15.7  | 16.0  | 15.4  | 14.8  | 13.9  | 13.2  | 12.0  | 10.8  |
| 77.5°  | 15.4  | 15.7  | 15.7  | 16.0  | 16.0  | 15.4  | 14.8  | 13.9  | 13.2  | 11.7  | 10.2  |
| 80°    | 15.4  | 15.1  | 14.8  | 14.2  | 13.9  | 12.7  | 11.4  | 9.9   | 8.7   | 6.8   | 5.2   |
| 82.5°  | 12.0  | 11.4  | 11.1  | 10.4  | 9.9   | 8.7   | 7.4   | 6.1   | 4.9   | 3.7   | 2.4   |
| 85°    | 9.5   | 8.9   | 8.7   | 8.0   | 7.4   | 6.4   | 5.2   | 4.3   | 3.1   | 2.4   | 1.6   |
| 87.5°  | 4.9   | 4.7   | 4.0   | 3.7   | 3.1   | 2.4   | 1.6   | 0.9   | 0.0   | 0.0   | 0.0   |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 92.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 95°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 97.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 100°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 102.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 105°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 107.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 110°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |



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CATALOG NUMBER: MSA-SA2A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 55° | 57.5° | 60° | 62.5° | 65° | 67.5° | 70° | 72.5° | 75° | 77.5° | 80° |
|--------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|
| 112.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 115°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 117.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 120°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 122.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 125°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 127.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 130°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 132.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 135°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 137.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 140°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 142.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 145°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 147.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 150°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 152.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 155°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 157.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 160°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 162.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 165°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 167.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 170°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 172.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 175°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 177.5° | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |
| 180°   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 |



REPORT NUMBER: P822994

CATALOG NUMBER: MSA-SA2A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 82.5° | 85°   | 87.5° | 90°   | 92.5° | 95°   | 97.5° | 100°  | 102.5° | 105°  | 107.5° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|--------|
| 0°     | 650.9 | 650.9 | 650.9 | 650.9 | 650.9 | 650.9 | 650.9 | 650.9 | 650.9  | 650.9 | 650.9  |
| 2.5°   | 638.6 | 654.3 | 652.1 | 650.0 | 660.1 | 670.3 | 662.9 | 655.8 | 648.4  | 641.0 | 625.7  |
| 5°     | 645.7 | 646.9 | 644.8 | 642.2 | 642.6 | 642.9 | 638.0 | 633.0 | 628.1  | 623.1 | 622.2  |
| 7.5°   | 515.7 | 520.7 | 527.5 | 533.9 | 534.2 | 534.2 | 530.5 | 526.8 | 522.8  | 519.1 | 521.0  |
| 10°    | 365.2 | 364.0 | 365.7 | 367.6 | 367.3 | 366.7 | 376.6 | 386.4 | 395.9  | 405.8 | 398.7  |
| 12.5°  | 270.4 | 271.8 | 264.2 | 256.5 | 259.3 | 261.7 | 263.3 | 264.8 | 266.3  | 267.8 | 272.2  |
| 15°    | 163.5 | 158.8 | 153.3 | 147.8 | 150.5 | 153.1 | 155.8 | 158.3 | 161.1  | 163.5 | 166.3  |
| 17.5°  | 113.9 | 112.4 | 109.9 | 107.1 | 107.4 | 107.8 | 108.1 | 108.3 | 108.3  | 108.7 | 109.3  |
| 20°    | 98.8  | 99.8  | 97.9  | 95.8  | 95.1  | 94.2  | 93.6  | 93.0  | 92.0   | 91.5  | 90.6   |
| 22.5°  | 87.1  | 87.8  | 88.0  | 88.0  | 86.8  | 85.2  | 84.0  | 83.1  | 81.9   | 80.7  | 80.0   |
| 25°    | 79.1  | 79.7  | 79.1  | 78.2  | 77.6  | 77.0  | 76.4  | 75.5  | 74.8   | 73.9  | 73.6   |
| 27.5°  | 72.4  | 73.3  | 73.3  | 72.9  | 72.4  | 71.5  | 69.9  | 68.7  | 67.1   | 65.6  | 65.9   |
| 30°    | 65.3  | 66.5  | 66.5  | 66.2  | 65.9  | 65.6  | 64.0  | 62.5  | 60.9   | 59.4  | 60.0   |
| 32.5°  | 60.0  | 60.6  | 60.4  | 60.0  | 60.0  | 59.7  | 58.5  | 57.6  | 56.4   | 55.2  | 55.2   |
| 35°    | 53.3  | 53.6  | 53.6  | 53.6  | 53.6  | 53.3  | 52.4  | 51.4  | 50.5   | 49.6  | 49.8   |
| 37.5°  | 48.4  | 48.4  | 49.3  | 49.8  | 49.3  | 48.6  | 48.1  | 47.1  | 46.5   | 45.6  | 45.6   |
| 40°    | 42.8  | 42.8  | 43.7  | 44.3  | 43.7  | 43.1  | 42.8  | 42.2  | 41.8   | 41.3  | 41.3   |
| 42.5°  | 37.9  | 37.9  | 38.8  | 39.4  | 39.4  | 39.1  | 38.5  | 37.9  | 37.3   | 36.6  | 37.0   |
| 45°    | 31.7  | 31.4  | 33.0  | 34.2  | 33.5  | 33.0  | 33.0  | 32.6  | 32.6   | 32.3  | 32.6   |
| 47.5°  | 26.2  | 25.9  | 27.1  | 28.3  | 28.0  | 27.4  | 27.4  | 27.4  | 27.4   | 27.4  | 27.7   |
| 50°    | 21.9  | 21.2  | 22.5  | 23.4  | 23.1  | 22.5  | 22.5  | 22.8  | 22.8   | 22.8  | 23.1   |
| 52.5°  | 18.8  | 18.2  | 19.1  | 19.7  | 19.4  | 19.1  | 19.1  | 19.4  | 19.4   | 19.4  | 19.7   |
| 55°    | 16.6  | 16.0  | 17.0  | 17.5  | 17.2  | 16.6  | 17.0  | 17.0  | 17.2   | 17.2  | 17.2   |
| 57.5°  | 14.8  | 13.9  | 14.4  | 15.1  | 15.1  | 14.8  | 15.1  | 15.1  | 15.4   | 15.4  | 15.4   |
| 60°    | 13.5  | 12.7  | 13.2  | 13.5  | 13.5  | 13.2  | 13.5  | 13.5  | 13.9   | 13.9  | 13.9   |
| 62.5°  | 12.0  | 11.1  | 11.7  | 12.0  | 12.0  | 11.7  | 12.0  | 12.0  | 12.3   | 12.3  | 12.3   |
| 65°    | 10.8  | 9.9   | 10.2  | 10.4  | 10.4  | 10.4  | 10.8  | 10.8  | 11.1   | 11.1  | 11.1   |
| 67.5°  | 10.2  | 8.9   | 9.2   | 9.5   | 9.5   | 9.5   | 9.9   | 9.9   | 10.2   | 10.2  | 10.4   |
| 70°    | 9.9   | 8.7   | 8.9   | 8.9   | 9.2   | 9.2   | 9.2   | 9.5   | 9.5    | 9.5   | 9.5    |
| 72.5°  | 9.5   | 8.3   | 8.3   | 8.3   | 8.7   | 8.7   | 8.7   | 8.9   | 8.9    | 8.9   | 8.9    |
| 75°    | 9.5   | 8.3   | 8.0   | 7.7   | 8.0   | 8.0   | 8.0   | 8.3   | 8.3    | 8.3   | 8.3    |
| 77.5°  | 8.3   | 6.8   | 6.1   | 5.2   | 6.1   | 6.8   | 7.1   | 7.1   | 7.4    | 7.4   | 7.4    |
| 80°    | 3.4   | 1.6   | 0.9   | 0.0   | 0.3   | 0.7   | 0.9   | 1.2   | 1.6    | 1.9   | 2.1    |
| 82.5°  | 1.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    |
| 85°    | 0.9   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    |
| 87.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    |
| 90°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    |
| 92.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    |
| 95°    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    |
| 97.5°  | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    |
| 100°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    |
| 102.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    |
| 105°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    |
| 107.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    |
| 110°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    |



REPORT NUMBER: P822994

CATALOG NUMBER: MSA-SA2A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 82.5° | 85° | 87.5° | 90° | 92.5° | 95° | 97.5° | 100° | 102.5° | 105° | 107.5° |
|--------|-------|-----|-------|-----|-------|-----|-------|------|--------|------|--------|
| 112.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 115°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 117.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 120°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 122.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 125°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 127.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 130°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 132.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 135°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 137.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 140°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 142.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 145°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 147.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 150°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 152.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 155°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 157.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 160°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 162.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 165°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 167.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 170°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 172.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 175°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 177.5° | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |
| 180°   | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0 | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    |



REPORT NUMBER: P822994

CATALOG NUMBER: MSA-SA2A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 110°  | 112.5° | 115°  | 117.5° | 120°  | 122.5° | 125°  | 127.5° | 130°  | 132.5° | 135°  |
|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 0°     | 650.9 | 650.9  | 650.9 | 650.9  | 650.9 | 650.9  | 650.9 | 650.9  | 650.9 | 650.9  | 650.9 |
| 2.5°   | 610.3 | 594.8  | 579.5 | 586.8  | 594.3 | 601.6  | 609.0 | 608.4  | 607.5 | 606.8  | 605.9 |
| 5°     | 621.7 | 620.7  | 619.8 | 615.5  | 611.5 | 607.2  | 602.8 | 601.9  | 600.7 | 599.8  | 598.6 |
| 7.5°   | 522.8 | 524.3  | 526.2 | 521.2  | 516.4 | 511.4  | 506.5 | 493.8  | 481.3 | 468.3  | 455.6 |
| 10°    | 391.6 | 384.3  | 377.2 | 376.6  | 375.9 | 375.3  | 374.7 | 373.5  | 372.3 | 370.7  | 369.5 |
| 12.5°  | 276.8 | 281.2  | 285.4 | 283.9  | 282.4 | 280.5  | 278.9 | 281.2  | 283.6 | 285.7  | 287.9 |
| 15°    | 168.7 | 171.5  | 173.9 | 179.5  | 185.0 | 190.6  | 196.1 | 198.2  | 200.8 | 202.9  | 205.0 |
| 17.5°  | 109.9 | 110.2  | 110.9 | 117.0  | 122.9 | 129.0  | 134.9 | 138.9  | 142.9 | 146.5  | 150.5 |
| 20°    | 89.6  | 88.7   | 87.8  | 91.1   | 94.6  | 97.9   | 101.3 | 105.0  | 108.7 | 112.4  | 116.1 |
| 22.5°  | 79.7  | 79.1   | 78.5  | 79.7   | 81.0  | 81.9   | 83.1  | 85.9   | 89.0  | 91.8   | 94.6  |
| 25°    | 73.3  | 72.7   | 72.4  | 72.9   | 73.6  | 74.2   | 74.8  | 76.4   | 77.9  | 79.5   | 81.0  |
| 27.5°  | 65.9  | 66.2   | 66.2  | 66.8   | 67.1  | 67.7   | 68.0  | 68.7   | 69.6  | 70.2   | 70.8  |
| 30°    | 60.4  | 60.9   | 61.3  | 61.9   | 62.2  | 62.8   | 63.2  | 62.8   | 62.5  | 62.2   | 61.9  |
| 32.5°  | 55.2  | 54.8   | 54.8  | 55.4   | 55.7  | 56.4   | 56.6  | 57.3   | 57.9  | 58.2   | 58.8  |
| 35°    | 49.8  | 50.2   | 50.2  | 50.2   | 50.5  | 50.5   | 50.5  | 51.1   | 52.1  | 52.6   | 53.3  |
| 37.5°  | 45.3  | 45.3   | 45.0  | 45.8   | 46.5  | 47.4   | 48.1  | 48.6   | 49.6  | 50.2   | 50.8  |
| 40°    | 41.3  | 41.3   | 41.3  | 41.8   | 42.5  | 42.8   | 43.4  | 45.0   | 46.5  | 48.1   | 49.6  |
| 42.5°  | 37.0  | 37.3   | 37.3  | 37.9   | 38.5  | 38.8   | 39.4  | 40.6   | 41.5  | 42.8   | 43.7  |
| 45°    | 33.0  | 33.3   | 33.5  | 34.2   | 34.5  | 35.1   | 35.4  | 36.1   | 36.3  | 37.0   | 37.3  |
| 47.5°  | 28.3  | 28.6   | 29.0  | 29.5   | 29.9  | 30.5   | 30.8  | 30.5   | 30.5  | 30.2   | 29.9  |
| 50°    | 23.7  | 24.0   | 24.3  | 25.2   | 25.9  | 26.8   | 27.4  | 26.8   | 26.2  | 25.2   | 24.6  |
| 52.5°  | 20.0  | 20.0   | 20.3  | 21.0   | 21.5  | 21.9   | 22.5  | 22.2   | 21.9  | 21.5   | 21.2  |
| 55°    | 17.2  | 17.2   | 17.2  | 17.5   | 17.9  | 18.2   | 18.4  | 18.8   | 18.8  | 19.1   | 19.1  |
| 57.5°  | 15.4  | 15.1   | 15.1  | 15.4   | 15.7  | 15.7   | 16.0  | 16.3   | 16.3  | 16.6   | 16.6  |
| 60°    | 13.9  | 13.5   | 13.5  | 13.9   | 14.2  | 14.4   | 14.8  | 14.8   | 14.8  | 14.4   | 14.4  |
| 62.5°  | 12.3  | 12.3   | 12.3  | 12.7   | 12.7  | 12.9   | 12.9  | 12.9   | 13.2  | 13.2   | 13.2  |
| 65°    | 11.4  | 11.4   | 11.4  | 11.4   | 11.4  | 11.1   | 11.1  | 11.4   | 11.4  | 11.7   | 11.7  |
| 67.5°  | 10.4  | 10.8   | 10.8  | 10.4   | 10.2  | 9.9    | 9.5   | 9.9    | 9.9   | 10.2   | 10.2  |
| 70°    | 9.5   | 9.5    | 9.5   | 9.2    | 8.9   | 8.7    | 8.3   | 8.3    | 8.3   | 8.0    | 8.0   |
| 72.5°  | 8.9   | 8.7    | 8.7   | 8.3    | 7.7   | 7.4    | 6.8   | 6.4    | 6.4   | 6.1    | 5.9   |
| 75°    | 8.3   | 8.0    | 8.0   | 7.4    | 6.8   | 6.1    | 5.5   | 5.2    | 4.7   | 4.3    | 3.7   |
| 77.5°  | 7.4   | 7.4    | 7.4   | 6.4    | 5.9   | 4.9    | 4.0   | 3.4    | 2.8   | 1.9    | 1.2   |
| 80°    | 2.4   | 2.8    | 3.1   | 2.8    | 2.8   | 2.4    | 2.1   | 1.6    | 1.2   | 0.7    | 0.0   |
| 82.5°  | 0.3   | 0.3    | 0.3   | 0.3    | 0.3   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 85°    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 87.5°  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 90°    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 92.5°  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 95°    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 97.5°  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 100°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 102.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 105°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 107.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 110°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |



REPORT NUMBER: P822994

CATALOG NUMBER: MSA-SA2A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 110° | 112.5° | 115° | 117.5° | 120° | 122.5° | 125° | 127.5° | 130° | 132.5° | 135° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 112.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 115°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 117.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 120°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 122.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 125°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 127.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 130°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 132.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 135°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 137.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 140°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 142.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 145°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 147.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 150°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 152.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 155°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 157.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 160°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 162.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 165°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 167.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 170°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 172.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 175°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 177.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 180°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

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**CANDELA DISTRIBUTION (continued):**

|        | 137.5° | 140°  | 142.5° | 145°  | 147.5° | 150°  | 152.5° | 155°  | 157.5° | 160°  | 162.5° |
|--------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 0°     | 650.9  | 650.9 | 650.9  | 650.9 | 650.9  | 650.9 | 650.9  | 650.9 | 650.9  | 650.9 | 650.9  |
| 2.5°   | 609.4  | 612.7 | 616.1  | 619.5 | 619.8  | 620.1 | 620.4  | 620.7 | 613.0  | 605.0 | 597.3  |
| 5°     | 604.7  | 611.2 | 617.4  | 623.5 | 620.1  | 616.7 | 613.4  | 609.9 | 609.6  | 609.6 | 609.4  |
| 7.5°   | 456.6  | 457.2 | 458.2  | 458.8 | 460.0  | 461.2 | 462.2  | 463.4 | 468.3  | 473.3 | 477.8  |
| 10°    | 365.5  | 361.5 | 357.2  | 353.2 | 350.1  | 346.6 | 343.6  | 340.2 | 342.7  | 345.4 | 348.0  |
| 12.5°  | 284.5  | 281.2 | 277.4  | 274.0 | 272.8  | 271.6 | 270.1  | 268.8 | 276.8  | 284.8 | 292.5  |
| 15°    | 204.5  | 203.8 | 202.9  | 202.3 | 206.3  | 210.3 | 214.3  | 218.3 | 225.1  | 231.5 | 238.3  |
| 17.5°  | 152.1  | 153.6 | 155.2  | 156.7 | 159.2  | 161.6 | 163.8  | 166.3 | 171.2  | 176.4 | 181.4  |
| 20°    | 117.9  | 120.1 | 121.9  | 123.8 | 123.2  | 122.5 | 121.6  | 121.0 | 125.0  | 129.0 | 132.7  |
| 22.5°  | 96.3   | 97.9  | 99.8   | 101.3 | 101.6  | 101.9 | 102.2  | 102.6 | 105.0  | 107.1 | 109.6  |
| 25°    | 82.5   | 84.4  | 85.9   | 87.5  | 87.8   | 88.0  | 88.4   | 88.7  | 91.8   | 94.8  | 97.6   |
| 27.5°  | 72.9   | 74.8  | 77.0   | 78.8  | 79.5   | 80.0  | 80.7   | 81.3  | 83.1   | 84.7  | 86.5   |
| 30°    | 64.4   | 66.8  | 69.3   | 71.7  | 72.7   | 73.6  | 74.5   | 75.5  | 77.3   | 79.5  | 81.3   |
| 32.5°  | 60.0   | 61.6  | 62.8   | 64.0  | 66.2   | 68.0  | 70.2   | 72.0  | 74.2   | 76.7  | 78.8   |
| 35°    | 55.2   | 56.6  | 58.5   | 60.0  | 61.6   | 63.2  | 64.4   | 65.9  | 67.1   | 68.4  | 69.3   |
| 37.5°  | 52.1   | 53.6  | 54.8   | 56.1  | 56.6   | 57.3  | 57.6   | 58.2  | 58.8   | 59.4  | 59.7   |
| 40°    | 49.6   | 49.3  | 49.3   | 49.0  | 49.6   | 50.5  | 51.1   | 51.7  | 53.6   | 55.2  | 56.9   |
| 42.5°  | 43.1   | 42.2  | 41.5   | 40.6  | 42.2   | 43.4  | 45.0   | 46.2  | 48.6   | 51.1  | 53.6   |
| 45°    | 36.6   | 36.1  | 35.1   | 34.5  | 36.6   | 38.8  | 41.0   | 43.1  | 45.8   | 48.4  | 51.1   |
| 47.5°  | 30.2   | 30.5  | 30.5   | 30.8  | 33.0   | 35.1  | 37.0   | 39.1  | 41.8   | 44.6  | 47.4   |
| 50°    | 25.2   | 25.9  | 26.5   | 27.1  | 29.3   | 31.1  | 33.3   | 35.1  | 38.2   | 41.0  | 44.1   |
| 52.5°  | 22.2   | 23.1  | 23.7   | 24.6  | 26.5   | 28.6  | 30.5   | 32.3  | 35.1   | 37.9  | 40.6   |
| 55°    | 20.0   | 21.2  | 22.2   | 23.1  | 24.6   | 26.2  | 27.7   | 29.3  | 32.0   | 34.7  | 37.3   |
| 57.5°  | 17.5   | 18.4  | 19.4   | 20.3  | 21.9   | 23.4  | 24.6   | 26.2  | 28.6   | 31.4  | 33.9   |
| 60°    | 15.4   | 16.0  | 17.0   | 17.5  | 18.8   | 20.3  | 21.5   | 22.8  | 25.2   | 27.7  | 29.9   |
| 62.5°  | 13.5   | 14.2  | 14.4   | 14.8  | 16.0   | 17.2  | 18.4   | 19.7  | 21.9   | 24.3  | 26.5   |
| 65°    | 12.0   | 12.3  | 12.3   | 12.7  | 13.5   | 14.8  | 15.7   | 16.6  | 19.1   | 21.2  | 23.7   |
| 67.5°  | 10.2   | 10.4  | 10.4   | 10.4  | 11.4   | 12.3  | 13.2   | 14.2  | 16.3   | 18.8  | 21.0   |
| 70°    | 8.0    | 8.3   | 8.3    | 8.3   | 9.2    | 10.4  | 11.4   | 12.3  | 14.2   | 16.0  | 17.9   |
| 72.5°  | 6.1    | 6.1   | 6.4    | 6.4   | 7.4    | 8.7   | 9.5    | 10.4  | 12.0   | 13.5  | 15.1   |
| 75°    | 4.0    | 4.3   | 4.3    | 4.7   | 5.5    | 6.8   | 7.7    | 8.7   | 10.2   | 11.7  | 12.9   |
| 77.5°  | 1.6    | 2.1   | 2.4    | 2.8   | 3.7    | 4.7   | 5.5    | 6.4   | 7.7    | 9.2   | 10.4   |
| 80°    | 0.0    | 0.3   | 0.3    | 0.3   | 0.9    | 1.2   | 1.9    | 2.1   | 3.1    | 4.3   | 5.2    |
| 82.5°  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 85°    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 87.5°  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 90°    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 92.5°  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 95°    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 97.5°  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 100°   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 102.5° | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 105°   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 107.5° | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 110°   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|        | 137.5° | 140° | 142.5° | 145° | 147.5° | 150° | 152.5° | 155° | 157.5° | 160° | 162.5° |
|--------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| 112.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 115°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 117.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 120°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 122.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 125°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 127.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 130°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 132.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 135°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 137.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 140°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 142.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 145°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 147.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 150°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 152.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 155°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 157.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 160°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 162.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 165°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 167.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 170°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 172.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 175°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 177.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 180°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |

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**CANDELA DISTRIBUTION (continued):**

|        | 165°  | 167.5° | 170°  | 172.5° | 175°  | 177.5° | 180°  | 182.5° | 185°  | 187.5° | 190°  |
|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 0°     | 650.9 | 650.9  | 650.9 | 650.9  | 650.9 | 650.9  | 650.9 | 650.9  | 650.9 | 650.9  | 650.9 |
| 2.5°   | 589.3 | 606.3  | 623.1 | 640.1  | 657.1 | 678.0  | 698.9 | 702.0  | 705.1 | 701.4  | 698.0 |
| 5°     | 609.0 | 617.4  | 625.4 | 633.7  | 641.7 | 665.7  | 689.4 | 689.7  | 689.7 | 690.0  | 690.0 |
| 7.5°   | 482.8 | 489.8  | 496.9 | 503.7  | 510.8 | 526.5  | 542.2 | 548.1  | 553.6 | 552.3  | 551.1 |
| 10°    | 350.4 | 359.6  | 368.5 | 377.8  | 386.7 | 401.1  | 415.7 | 421.2  | 426.4 | 443.3  | 460.6 |
| 12.5°  | 300.5 | 309.5  | 318.3 | 327.0  | 335.9 | 350.7  | 365.5 | 376.3  | 386.7 | 397.2  | 407.7 |
| 15°    | 244.8 | 251.9  | 259.3 | 266.3  | 273.4 | 280.2  | 286.9 | 300.2  | 313.1 | 323.6  | 334.1 |
| 17.5°  | 186.3 | 189.4  | 192.1 | 195.2  | 198.0 | 201.0  | 204.1 | 209.7  | 214.9 | 224.1  | 233.1 |
| 20°    | 136.7 | 139.2  | 141.6 | 143.7  | 146.3 | 149.3  | 152.4 | 156.4  | 160.1 | 162.3  | 164.1 |
| 22.5°  | 111.8 | 115.4  | 119.2 | 122.5  | 126.2 | 128.4  | 130.5 | 131.8  | 133.0 | 134.0  | 134.9 |
| 25°    | 100.7 | 104.1  | 107.1 | 110.6  | 113.7 | 114.5  | 115.4 | 117.9  | 120.4 | 120.4  | 120.4 |
| 27.5°  | 88.0  | 92.7   | 97.6  | 102.2  | 106.9 | 108.1  | 109.0 | 109.9  | 110.6 | 109.3  | 107.8 |
| 30°    | 83.1  | 87.8   | 92.4  | 96.7   | 101.3 | 103.1  | 104.7 | 105.6  | 106.6 | 105.0  | 103.4 |
| 32.5°  | 81.0  | 85.2   | 89.2  | 93.6   | 97.6  | 100.1  | 102.2 | 104.7  | 106.9 | 107.1  | 107.8 |
| 35°    | 70.5  | 73.3   | 76.4  | 79.1   | 81.9  | 83.1   | 84.4  | 85.2   | 85.9  | 85.9   | 85.9  |
| 37.5°  | 60.4  | 64.0   | 68.0  | 71.7   | 75.5  | 78.2   | 81.0  | 81.3   | 81.3  | 81.9   | 82.8  |
| 40°    | 58.5  | 62.2   | 65.9  | 69.3   | 72.9  | 76.0   | 78.8  | 79.1   | 79.5  | 80.0   | 80.7  |
| 42.5°  | 56.1  | 60.0   | 64.0  | 68.0   | 72.0  | 75.1   | 77.9  | 77.9   | 77.6  | 78.5   | 79.1  |
| 45°    | 53.6  | 57.6   | 61.3  | 65.3   | 68.9  | 72.9   | 76.7  | 75.7   | 74.5  | 76.0   | 77.3  |
| 47.5°  | 50.2  | 54.5   | 58.8  | 62.8   | 67.1  | 70.8   | 74.2  | 73.6   | 72.7  | 74.2   | 75.7  |
| 50°    | 46.8  | 51.1   | 55.4  | 59.7   | 64.0  | 68.0   | 71.7  | 71.1   | 70.5  | 72.4   | 73.9  |
| 52.5°  | 43.4  | 47.7   | 52.4  | 56.6   | 60.9  | 64.4   | 67.4  | 67.1   | 66.8  | 68.7   | 70.8  |
| 55°    | 40.1  | 44.1   | 48.4  | 52.4   | 56.4  | 60.0   | 63.4  | 62.8   | 62.2  | 63.7   | 65.3  |
| 57.5°  | 36.3  | 40.3   | 44.1  | 48.1   | 51.7  | 54.8   | 57.6  | 56.6   | 55.7  | 57.6   | 59.4  |
| 60°    | 32.3  | 36.1   | 39.7  | 43.1   | 46.8  | 49.3   | 51.4  | 50.8   | 49.8  | 51.7   | 53.6  |
| 62.5°  | 28.6  | 32.0   | 35.4  | 38.5   | 41.8  | 43.7   | 45.6  | 45.0   | 44.3  | 46.2   | 48.4  |
| 65°    | 25.9  | 28.6   | 31.1  | 33.9   | 36.3  | 38.2   | 40.1  | 39.1   | 38.2  | 40.3   | 42.2  |
| 67.5°  | 23.1  | 25.2   | 27.7  | 29.9   | 32.0  | 33.5   | 35.1  | 34.5   | 33.5  | 35.1   | 36.6  |
| 70°    | 19.7  | 21.9   | 24.0  | 25.9   | 28.0  | 29.5   | 31.1  | 30.2   | 29.0  | 30.5   | 32.0  |
| 72.5°  | 16.6  | 18.4   | 20.3  | 21.9   | 23.7  | 25.0   | 26.2  | 25.2   | 24.3  | 25.5   | 26.8  |
| 75°    | 14.4  | 16.0   | 17.5  | 18.8   | 20.3  | 21.0   | 21.5  | 21.2   | 20.6  | 21.9   | 22.8  |
| 77.5°  | 11.7  | 12.9   | 14.4  | 15.7   | 17.0  | 17.0   | 17.0  | 17.2   | 17.2  | 18.4   | 20.0  |
| 80°    | 6.1   | 7.4    | 8.7   | 9.5    | 10.8  | 10.8   | 10.4  | 11.1   | 11.4  | 12.9   | 14.4  |
| 82.5°  | 0.0   | 0.9    | 1.9   | 2.8    | 3.7   | 3.4    | 2.8   | 3.1    | 3.1   | 3.7    | 4.3   |
| 85°    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.3    | 0.7   |
| 87.5°  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 90°    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 92.5°  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 95°    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 97.5°  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 100°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 102.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 105°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 107.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 110°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |



REPORT NUMBER: P822994

CATALOG NUMBER: MSA-SA2A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 165° | 167.5° | 170° | 172.5° | 175° | 177.5° | 180° | 182.5° | 185° | 187.5° | 190° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 112.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 115°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 117.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 120°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 122.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 125°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 127.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 130°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 132.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 135°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 137.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 140°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 142.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 145°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 147.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 150°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 152.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 155°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 157.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 160°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 162.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 165°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 167.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 170°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 172.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 175°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 177.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 180°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

REPORT NUMBER: P822994

CATALOG NUMBER: MSA-SA2A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 192.5° | 195°  | 197.5° | 200°  | 202.5° | 205°  | 207.5° | 210°  | 212.5° | 215°  | 217.5° |
|--------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|
| 0°     | 650.9  | 650.9 | 650.9  | 650.9 | 650.9  | 650.9 | 650.9  | 650.9 | 650.9  | 650.9 | 650.9  |
| 2.5°   | 694.3  | 690.6 | 688.2  | 686.0 | 683.5  | 681.1 | 684.2  | 687.2 | 690.0  | 693.1 | 702.3  |
| 5°     | 690.3  | 690.3 | 688.2  | 686.0 | 683.9  | 681.7 | 686.3  | 690.6 | 695.3  | 699.5 | 699.3  |
| 7.5°   | 549.6  | 548.3 | 561.3  | 574.0 | 586.8  | 599.5 | 602.8  | 606.3 | 609.4  | 612.7 | 611.8  |
| 10°    | 477.5  | 494.5 | 500.0  | 505.6 | 511.1  | 516.7 | 523.5  | 530.2 | 537.0  | 543.8 | 546.2  |
| 12.5°  | 418.1  | 428.6 | 446.4  | 464.0 | 481.8  | 499.4 | 508.4  | 517.6 | 526.5  | 535.4 | 553.0  |
| 15°    | 344.5  | 355.0 | 370.4  | 385.8 | 401.1  | 416.6 | 430.8  | 445.2 | 459.4  | 473.5 | 494.8  |
| 17.5°  | 242.3  | 251.3 | 263.0  | 274.6 | 286.0  | 297.7 | 319.6  | 341.4 | 363.3  | 385.2 | 407.7  |
| 20°    | 166.3  | 168.2 | 173.7  | 179.5 | 185.0  | 190.6 | 210.3  | 230.3 | 250.0  | 269.7 | 299.3  |
| 22.5°  | 135.5  | 136.4 | 139.2  | 142.0 | 144.4  | 147.2 | 157.3  | 167.8 | 177.9  | 188.1 | 212.1  |
| 25°    | 120.1  | 120.1 | 121.9  | 123.8 | 125.6  | 127.4 | 133.0  | 138.5 | 143.7  | 149.3 | 164.7  |
| 27.5°  | 106.6  | 105.0 | 107.8  | 110.6 | 113.3  | 116.1 | 120.1  | 124.4 | 128.4  | 132.4 | 142.9  |
| 30°    | 101.9  | 100.3 | 103.8  | 107.1 | 110.6  | 113.9 | 117.9  | 121.9 | 125.6  | 129.6 | 136.7  |
| 32.5°  | 108.1  | 108.3 | 109.6  | 110.9 | 111.8  | 113.0 | 114.9  | 117.0 | 118.9  | 120.7 | 126.9  |
| 35°    | 85.9   | 85.9  | 88.0   | 90.2  | 92.0   | 94.2  | 97.6   | 101.0 | 104.3  | 107.8 | 114.2  |
| 37.5°  | 83.5   | 84.0  | 85.9   | 88.0  | 89.9   | 91.8  | 96.0   | 100.7 | 105.0  | 109.3 | 114.5  |
| 40°    | 81.0   | 81.6  | 84.0   | 86.5  | 89.0   | 91.5  | 95.8   | 99.8  | 104.1  | 108.1 | 113.0  |
| 42.5°  | 80.0   | 80.7  | 83.8   | 87.1  | 90.2   | 93.3  | 97.0   | 100.7 | 104.1  | 107.8 | 114.5  |
| 45°    | 78.8   | 80.0  | 83.8   | 87.8  | 91.5   | 95.1  | 98.6   | 101.9 | 105.3  | 108.7 | 117.0  |
| 47.5°  | 77.0   | 78.5  | 82.8   | 86.8  | 91.1   | 95.1  | 101.6  | 108.3 | 114.9  | 121.3 | 125.3  |
| 50°    | 75.7   | 77.3  | 81.9   | 86.5  | 91.1   | 95.8  | 106.2  | 116.7 | 126.9  | 137.3 | 135.2  |
| 52.5°  | 72.7   | 74.5  | 80.4   | 86.2  | 92.0   | 97.9  | 107.1  | 116.4 | 125.6  | 134.9 | 130.5  |
| 55°    | 66.8   | 68.4  | 75.1   | 81.9  | 88.4   | 95.1  | 101.9  | 108.7 | 115.1  | 121.9 | 117.0  |
| 57.5°  | 60.9   | 62.8  | 69.3   | 75.7  | 81.9   | 88.4  | 91.8   | 95.1  | 98.6   | 101.9 | 100.1  |
| 60°    | 55.4   | 57.3  | 65.9   | 74.5  | 83.1   | 91.8  | 88.7   | 85.6  | 82.2   | 79.1  | 81.3   |
| 62.5°  | 50.2   | 52.1  | 60.4   | 68.4  | 76.7   | 84.7  | 80.4   | 76.0  | 71.7   | 67.4  | 70.8   |
| 65°    | 44.3   | 46.2  | 49.3   | 52.6  | 55.7   | 58.8  | 58.5   | 57.9  | 57.6   | 56.9  | 60.6   |
| 67.5°  | 38.2   | 39.7  | 41.3   | 43.1  | 44.6   | 46.2  | 47.1   | 48.4  | 49.3   | 50.2  | 53.3   |
| 70°    | 33.3   | 34.7  | 36.6   | 38.2  | 40.1   | 41.5  | 42.2   | 42.8  | 43.1   | 43.7  | 46.5   |
| 72.5°  | 27.7   | 29.0  | 31.4   | 33.9  | 36.1   | 38.5  | 38.8   | 38.8  | 39.1   | 39.1  | 41.3   |
| 75°    | 24.0   | 25.0  | 26.8   | 28.6  | 30.2   | 32.0  | 33.0   | 33.9  | 34.5   | 35.4  | 36.6   |
| 77.5°  | 21.2   | 22.5  | 23.1   | 23.4  | 24.0   | 24.3  | 25.0   | 25.5  | 26.2   | 26.8  | 27.1   |
| 80°    | 15.7   | 17.2  | 17.9   | 18.2  | 18.8   | 19.1  | 19.1   | 18.8  | 18.8   | 18.4  | 18.8   |
| 82.5°  | 4.9    | 5.5   | 6.4    | 7.4   | 8.3    | 9.2   | 9.5    | 9.9   | 9.9    | 10.2  | 9.9    |
| 85°    | 0.9    | 1.2   | 1.9    | 2.4   | 2.8    | 3.4   | 3.1    | 2.4   | 2.1    | 1.6   | 1.2    |
| 87.5°  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 90°    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 92.5°  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 95°    | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 97.5°  | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 100°   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 102.5° | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 105°   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 107.5° | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |
| 110°   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    |



REPORT NUMBER: P822994

CATALOG NUMBER: MSA-SA2A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 192.5° | 195° | 197.5° | 200° | 202.5° | 205° | 207.5° | 210° | 212.5° | 215° | 217.5° |
|--------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| 112.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 115°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 117.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 120°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 122.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 125°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 127.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 130°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 132.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 135°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 137.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 140°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 142.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 145°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 147.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 150°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 152.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 155°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 157.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 160°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 162.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 165°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 167.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 170°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 172.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 175°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 177.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 180°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |



REPORT NUMBER: P822994

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**CANDELA DISTRIBUTION (continued):**

|        | 220°  | 222.5° | 225°  | 227.5° | 230°  | 232.5° | 235°  | 237.5° | 240°  | 242.5° | 245°  |
|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
| 0°     | 650.9 | 650.9  | 650.9 | 650.9  | 650.9 | 650.9  | 650.9 | 650.9  | 650.9 | 650.9  | 650.9 |
| 2.5°   | 711.6 | 720.5  | 729.7 | 726.0  | 722.4 | 718.6  | 714.9 | 715.6  | 716.5 | 717.1  | 717.7 |
| 5°     | 698.9 | 698.3  | 698.0 | 708.5  | 719.3 | 729.7  | 740.2 | 751.6  | 763.3 | 774.6  | 786.1 |
| 7.5°   | 610.9 | 609.6  | 608.7 | 622.2  | 635.8 | 649.3  | 662.9 | 678.6  | 694.6 | 710.3  | 726.0 |
| 10°    | 548.7 | 551.1  | 553.6 | 559.1  | 565.0 | 570.5  | 576.1 | 591.2  | 606.3 | 621.0  | 636.1 |
| 12.5°  | 570.5 | 587.7  | 605.4 | 608.7  | 611.8 | 615.1  | 618.3 | 620.4  | 622.6 | 624.7  | 626.9 |
| 15°    | 516.4 | 537.6  | 558.9 | 567.7  | 576.4 | 585.3  | 593.9 | 616.7  | 639.2 | 662.0  | 684.4 |
| 17.5°  | 430.1 | 452.3  | 474.7 | 501.6  | 528.3 | 555.1  | 582.0 | 606.6  | 631.2 | 655.8  | 680.4 |
| 20°    | 329.1 | 358.7  | 388.3 | 422.1  | 456.3 | 490.2  | 524.0 | 548.7  | 573.0 | 597.6  | 621.9 |
| 22.5°  | 236.4 | 260.5  | 284.5 | 325.4  | 366.1 | 407.0  | 447.7 | 490.5  | 533.6 | 576.4  | 619.1 |
| 25°    | 180.1 | 195.2  | 210.6 | 251.0  | 291.3 | 331.3  | 371.6 | 430.4  | 489.3 | 548.1  | 606.8 |
| 27.5°  | 153.1 | 163.5  | 173.7 | 210.0  | 246.3 | 282.4  | 318.7 | 388.6  | 458.4 | 528.3  | 598.3 |
| 30°    | 144.1 | 151.2  | 158.3 | 189.0  | 220.1 | 251.0  | 281.7 | 352.5  | 423.3 | 494.2  | 565.0 |
| 32.5°  | 133.0 | 138.9  | 145.1 | 172.2  | 199.2 | 226.0  | 253.1 | 322.3  | 391.6 | 460.6  | 529.9 |
| 35°    | 120.4 | 126.9  | 133.0 | 160.1  | 187.2 | 214.0  | 241.1 | 312.8  | 384.6 | 456.3  | 528.0 |
| 37.5°  | 119.4 | 124.7  | 129.6 | 161.1  | 192.7 | 224.1  | 255.5 | 327.3  | 399.0 | 470.5  | 542.2 |
| 40°    | 118.2 | 123.2  | 128.1 | 160.1  | 191.8 | 223.9  | 255.5 | 330.7  | 405.8 | 480.9  | 556.1 |
| 42.5°  | 121.3 | 127.8  | 134.5 | 162.8  | 191.2 | 219.2  | 247.5 | 326.7  | 405.8 | 484.6  | 563.8 |
| 45°    | 125.6 | 134.0  | 142.3 | 168.2  | 194.0 | 219.9  | 245.7 | 331.6  | 417.5 | 503.1  | 589.1 |
| 47.5°  | 129.6 | 133.6  | 137.6 | 162.3  | 186.6 | 211.2  | 235.5 | 323.3  | 411.0 | 498.8  | 586.5 |
| 50°    | 133.3 | 131.2  | 129.0 | 156.1  | 183.2 | 210.0  | 237.1 | 320.8  | 404.3 | 488.0  | 571.4 |
| 52.5°  | 126.0 | 121.6  | 117.0 | 146.0  | 174.9 | 203.6  | 232.4 | 316.8  | 401.1 | 485.5  | 570.0 |
| 55°    | 112.1 | 107.1  | 102.2 | 130.9  | 159.2 | 187.8  | 216.1 | 300.2  | 384.3 | 468.3  | 552.3 |
| 57.5°  | 97.9  | 96.0   | 93.9  | 115.8  | 137.6 | 159.2  | 181.0 | 274.4  | 368.0 | 461.2  | 554.5 |
| 60°    | 83.5  | 85.2   | 87.5  | 103.1  | 118.9 | 134.2  | 150.0 | 241.4  | 332.5 | 424.0  | 515.1 |
| 62.5°  | 73.9  | 77.3   | 80.4  | 93.6   | 107.1 | 120.4  | 133.6 | 219.9  | 306.0 | 392.3  | 478.5 |
| 65°    | 64.7  | 68.4   | 72.0  | 87.8   | 103.8 | 119.4  | 135.2 | 208.1  | 281.2 | 354.1  | 427.0 |
| 67.5°  | 56.4  | 59.2   | 62.2  | 82.8   | 103.4 | 124.1  | 144.7 | 204.5  | 263.8 | 323.6  | 383.0 |
| 70°    | 49.3  | 51.7   | 54.5  | 78.5   | 102.6 | 126.5  | 150.5 | 201.3  | 252.5 | 303.2  | 354.1 |
| 72.5°  | 43.4  | 45.6   | 47.7  | 72.0   | 96.3  | 120.7  | 145.1 | 190.3  | 235.2 | 280.5  | 325.4 |
| 75°    | 37.9  | 38.8   | 40.1  | 60.6   | 81.0  | 101.6  | 121.9 | 152.1  | 182.6 | 212.8  | 243.0 |
| 77.5°  | 27.4  | 27.4   | 27.7  | 33.9   | 39.7  | 45.8   | 51.7  | 70.5   | 89.2  | 107.8  | 126.5 |
| 80°    | 18.8  | 19.1   | 19.1  | 21.5   | 23.7  | 26.2   | 28.3  | 32.3   | 36.1  | 40.1   | 43.7  |
| 82.5°  | 9.5   | 8.9    | 8.7   | 11.1   | 13.5  | 16.0   | 18.4  | 19.4   | 20.0  | 21.0   | 21.5  |
| 85°    | 0.9   | 0.3    | 0.0   | 1.6    | 3.1   | 4.7    | 6.1   | 7.4    | 8.7   | 9.9    | 11.1  |
| 87.5°  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 90°    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 92.5°  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 95°    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 97.5°  | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 100°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 102.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 105°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 107.5° | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| 110°   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |



REPORT NUMBER: P822994

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**CANDELA DISTRIBUTION (continued):**

|        | 220° | 222.5° | 225° | 227.5° | 230° | 232.5° | 235° | 237.5° | 240° | 242.5° | 245° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 112.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 115°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 117.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 120°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 122.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 125°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 127.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 130°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 132.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 135°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 137.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 140°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 142.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 145°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 147.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 150°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 152.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 155°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 157.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 160°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 162.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 165°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 167.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 170°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 172.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 175°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 177.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 180°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |

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CATALOG NUMBER: MSA-SA2A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250°   | 252.5° | 255°   | 257.5° | 260°   | 262.5° | 265°   | 267.5° | 270°   | 272.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  |
| 2.5°   | 715.3  | 712.8  | 710.3  | 707.8  | 722.9  | 738.3  | 753.4  | 768.5  | 811.3  | 839.4  | 836.2  |
| 5°     | 797.2  | 808.3  | 819.3  | 830.4  | 848.2  | 866.4  | 884.3  | 902.2  | 965.6  | 1004.4 | 1009.9 |
| 7.5°   | 743.2  | 760.2  | 777.4  | 794.4  | 828.8  | 863.0  | 897.5  | 931.7  | 983.8  | 1024.1 | 1046.8 |
| 10°    | 655.5  | 674.9  | 694.0  | 713.4  | 752.2  | 791.3  | 830.1  | 868.9  | 927.4  | 983.1  | 1011.7 |
| 12.5°  | 657.3  | 687.8  | 718.4  | 748.8  | 782.6  | 816.5  | 850.1  | 884.0  | 919.7  | 938.5  | 978.8  |
| 15°    | 708.5  | 732.5  | 756.5  | 780.5  | 824.8  | 869.2  | 913.2  | 957.6  | 978.8  | 1024.1 | 1071.2 |
| 17.5°  | 727.3  | 774.3  | 821.2  | 868.0  | 923.4  | 978.5  | 1033.9 | 1089.0 | 1129.1 | 1191.9 | 1240.5 |
| 20°    | 692.5  | 763.0  | 833.1  | 903.7  | 979.8  | 1055.8 | 1131.8 | 1207.9 | 1251.6 | 1311.3 | 1386.5 |
| 22.5°  | 694.0  | 768.8  | 843.4  | 918.2  | 1023.2 | 1127.8 | 1232.8 | 1337.5 | 1454.8 | 1569.9 | 1606.6 |
| 25°    | 704.8  | 802.7  | 900.3  | 998.2  | 1119.5 | 1240.8 | 1362.2 | 1483.5 | 1625.1 | 1746.1 | 1794.7 |
| 27.5°  | 708.5  | 818.7  | 928.6  | 1038.8 | 1211.3 | 1383.7 | 1556.1 | 1728.6 | 1897.6 | 2034.2 | 2086.3 |
| 30°    | 699.5  | 834.4  | 969.0  | 1103.5 | 1315.0 | 1526.5 | 1738.1 | 1949.7 | 2110.0 | 2269.2 | 2333.8 |
| 32.5°  | 701.7  | 873.5  | 1045.3 | 1217.1 | 1466.2 | 1715.6 | 1964.7 | 2213.8 | 2316.3 | 2459.8 | 2573.7 |
| 35°    | 716.5  | 905.0  | 1093.0 | 1281.5 | 1557.1 | 1832.6 | 2108.2 | 2383.8 | 2551.8 | 2703.3 | 2800.0 |
| 37.5°  | 751.0  | 959.7  | 1168.1 | 1376.9 | 1715.6 | 2054.6 | 2393.3 | 2732.0 | 2992.1 | 3252.3 | 3296.7 |
| 40°    | 776.5  | 997.0  | 1217.4 | 1437.9 | 1831.1 | 2224.3 | 2617.4 | 3010.7 | 3304.9 | 3587.3 | 3617.5 |
| 42.5°  | 805.5  | 1046.8 | 1288.6 | 1530.0 | 1969.6 | 2409.3 | 2849.0 | 3288.6 | 3629.5 | 3917.4 | 3937.4 |
| 45°    | 837.1  | 1085.7 | 1333.8 | 1581.9 | 2042.6 | 2502.9 | 2963.5 | 3423.8 | 3822.0 | 4156.3 | 4080.9 |
| 47.5°  | 852.2  | 1118.0 | 1383.7 | 1649.4 | 2143.2 | 2636.8 | 3130.7 | 3624.3 | 3981.5 | 4276.4 | 4188.4 |
| 50°    | 864.0  | 1156.1 | 1448.6 | 1740.9 | 2258.8 | 2776.6 | 3294.5 | 3812.4 | 4170.5 | 4442.6 | 4304.7 |
| 52.5°  | 896.9  | 1223.6 | 1550.6 | 1877.3 | 2428.1 | 2978.6 | 3529.5 | 4079.9 | 4426.3 | 4676.4 | 4483.0 |
| 55°    | 928.9  | 1305.2 | 1681.7 | 2058.0 | 2650.4 | 3243.1 | 3835.5 | 4427.9 | 4772.7 | 4987.0 | 4724.4 |
| 57.5°  | 969.2  | 1384.3 | 1799.0 | 2213.8 | 2847.4 | 3481.1 | 4114.4 | 4748.1 | 5085.2 | 5322.0 | 5049.2 |
| 60°    | 958.8  | 1402.2 | 1845.9 | 2289.2 | 2934.5 | 3580.0 | 4225.3 | 4870.6 | 5271.2 | 5562.2 | 5377.1 |
| 62.5°  | 918.2  | 1357.8 | 1797.2 | 2236.9 | 2870.8 | 3504.5 | 4138.4 | 4772.1 | 5252.1 | 5646.2 | 5584.0 |
| 65°    | 835.9  | 1244.5 | 1653.4 | 2062.0 | 2667.4 | 3273.0 | 3878.3 | 4483.6 | 5076.0 | 5577.6 | 5599.8 |
| 67.5°  | 727.9  | 1072.7 | 1417.2 | 1762.1 | 2326.8 | 2891.5 | 3455.9 | 4020.5 | 4719.8 | 5304.8 | 5370.7 |
| 70°    | 613.4  | 872.3  | 1131.5 | 1390.5 | 1887.4 | 2384.3 | 2881.0 | 3378.0 | 4104.9 | 4693.6 | 4818.0 |
| 72.5°  | 491.7  | 658.3  | 824.6  | 990.8  | 1349.5 | 1707.9 | 2066.6 | 2425.0 | 3064.5 | 3521.4 | 3738.5 |
| 75°    | 318.7  | 394.4  | 470.2  | 545.9  | 784.9  | 1023.5 | 1262.4 | 1501.0 | 1925.6 | 2262.1 | 2507.5 |
| 77.5°  | 142.0  | 157.3  | 172.4  | 187.8  | 372.3  | 556.7  | 741.1  | 925.5  | 1110.0 | 1313.2 | 1370.8 |
| 80°    | 50.8   | 57.6   | 64.7   | 71.5   | 161.9  | 252.7  | 343.3  | 433.8  | 523.1  | 628.1  | 653.7  |
| 82.5°  | 21.2   | 21.2   | 21.0   | 20.6   | 52.9   | 85.2   | 117.7  | 150.0  | 173.4  | 199.2  | 204.1  |
| 85°    | 8.7    | 6.4    | 4.0    | 1.6    | 6.8    | 12.3   | 17.5   | 22.8   | 36.6   | 33.3   | 61.6   |
| 87.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P822994

CATALOG NUMBER: MSA-SA2A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 247.5° | 250° | 252.5° | 255° | 257.5° | 260° | 262.5° | 265° | 267.5° | 270° | 272.5° |
|--------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| 112.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 115°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 117.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 120°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 122.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 125°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 127.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 130°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 132.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 135°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 137.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 140°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 142.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 145°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 147.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 150°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 152.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 155°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 157.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 160°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 162.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 165°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 167.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 170°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 172.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 175°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 177.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 180°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |

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CATALOG NUMBER: MSA-SA2A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 275°   | 277.5° | 280°   | 282.5° | 285°   | 287.5° | 290°   | 292.5° | 295°   | 297.5° | 300°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  |
| 2.5°   | 824.6  | 823.9  | 823.3  | 822.7  | 822.0  | 811.0  | 800.2  | 789.2  | 778.4  | 792.0  | 805.5  |
| 5°     | 1001.0 | 1017.0 | 1033.0 | 1049.4 | 1065.3 | 1069.9 | 1074.6 | 1079.2 | 1083.8 | 1093.7 | 1103.5 |
| 7.5°   | 1065.9 | 1093.0 | 1119.8 | 1146.9 | 1173.7 | 1198.7 | 1223.3 | 1248.3 | 1273.1 | 1267.0 | 1260.8 |
| 10°    | 1043.5 | 1092.4 | 1141.4 | 1190.7 | 1239.6 | 1250.4 | 1261.1 | 1272.2 | 1283.0 | 1311.0 | 1339.1 |
| 12.5°  | 1019.2 | 1078.0 | 1136.7 | 1195.5 | 1254.4 | 1287.0 | 1319.3 | 1351.9 | 1384.6 | 1413.0 | 1441.3 |
| 15°    | 1134.6 | 1172.1 | 1209.8 | 1247.6 | 1285.1 | 1313.8 | 1342.2 | 1370.8 | 1399.1 | 1418.8 | 1438.2 |
| 17.5°  | 1286.4 | 1304.9 | 1323.3 | 1342.2 | 1360.6 | 1383.1 | 1405.6 | 1428.0 | 1450.5 | 1462.2 | 1473.9 |
| 20°    | 1446.8 | 1454.8 | 1462.8 | 1470.8 | 1478.8 | 1460.9 | 1443.1 | 1425.3 | 1407.4 | 1418.5 | 1429.3 |
| 22.5°  | 1607.8 | 1610.6 | 1613.7 | 1616.4 | 1619.2 | 1577.7 | 1536.1 | 1494.6 | 1452.9 | 1435.4 | 1417.9 |
| 25°    | 1855.7 | 1835.3 | 1815.0 | 1794.7 | 1774.4 | 1725.1 | 1675.9 | 1626.7 | 1577.4 | 1534.0 | 1490.6 |
| 27.5°  | 2124.1 | 2055.2 | 1986.5 | 1917.6 | 1848.9 | 1799.7 | 1750.4 | 1701.1 | 1651.9 | 1586.6 | 1521.3 |
| 30°    | 2394.9 | 2283.7 | 2172.9 | 2061.7 | 1950.9 | 1892.4 | 1833.9 | 1775.1 | 1716.6 | 1651.3 | 1586.3 |
| 32.5°  | 2642.9 | 2509.4 | 2375.8 | 2241.8 | 2108.2 | 2009.6 | 1911.1 | 1812.6 | 1714.1 | 1668.5 | 1622.9 |
| 35°    | 2848.6 | 2690.7 | 2532.7 | 2374.5 | 2216.6 | 2118.9 | 2021.4 | 1923.8 | 1826.1 | 1758.4 | 1690.9 |
| 37.5°  | 3200.3 | 3022.7 | 2845.0 | 2667.4 | 2489.7 | 2356.3 | 2223.4 | 2090.0 | 1956.7 | 1911.5 | 1866.2 |
| 40°    | 3524.5 | 3300.7 | 3076.8 | 2853.0 | 2629.2 | 2517.4 | 2406.0 | 2294.2 | 2182.6 | 2108.5 | 2034.6 |
| 42.5°  | 3782.2 | 3546.3 | 3310.8 | 3074.9 | 2839.1 | 2728.6 | 2618.4 | 2507.9 | 2397.3 | 2347.7 | 2298.4 |
| 45°    | 3837.9 | 3615.6 | 3393.6 | 3171.4 | 2949.1 | 2884.7 | 2820.7 | 2756.3 | 2692.2 | 2658.0 | 2624.2 |
| 47.5°  | 3947.8 | 3706.7 | 3466.0 | 3224.9 | 2983.8 | 2954.9 | 2926.0 | 2896.7 | 2867.7 | 2884.0 | 2900.4 |
| 50°    | 4009.4 | 3763.5 | 3517.4 | 3271.4 | 3025.4 | 3033.8 | 3041.8 | 3050.1 | 3058.3 | 3174.1 | 3289.6 |
| 52.5°  | 4128.9 | 3880.4 | 3631.9 | 3383.5 | 3135.0 | 3187.4 | 3239.4 | 3291.7 | 3343.8 | 3503.3 | 3662.4 |
| 55°    | 4342.3 | 4098.1 | 3853.9 | 3609.5 | 3365.3 | 3434.3 | 3503.3 | 3572.5 | 3641.5 | 3810.9 | 3979.9 |
| 57.5°  | 4658.5 | 4416.2 | 4174.1 | 3931.8 | 3689.9 | 3758.5 | 3827.2 | 3895.9 | 3964.5 | 4117.5 | 4270.3 |
| 60°    | 5056.6 | 4807.8 | 4559.3 | 4310.6 | 4062.1 | 4088.0 | 4113.5 | 4139.4 | 4165.3 | 4329.7 | 4493.8 |
| 62.5°  | 5366.7 | 5137.9 | 4909.4 | 4680.6 | 4452.2 | 4423.6 | 4395.2 | 4366.6 | 4338.3 | 4463.3 | 4587.9 |
| 65°    | 5438.7 | 5277.7 | 5117.0 | 4955.9 | 4794.9 | 4706.8 | 4619.1 | 4531.0 | 4443.0 | 4493.5 | 4544.0 |
| 67.5°  | 5232.4 | 5123.7 | 5015.4 | 4906.6 | 4797.9 | 4614.1 | 4430.3 | 4246.2 | 4062.4 | 4035.6 | 4008.9 |
| 70°    | 4753.7 | 4694.2 | 4635.1 | 4575.6 | 4516.6 | 4233.3 | 3950.4 | 3667.1 | 3384.1 | 3316.0 | 3248.0 |
| 72.5°  | 3751.1 | 3788.1 | 3825.1 | 3862.2 | 3899.2 | 3596.0 | 3292.9 | 2989.7 | 2686.5 | 2600.2 | 2514.3 |
| 75°    | 2645.2 | 2770.5 | 2895.8 | 3021.1 | 3146.4 | 2869.9 | 2593.8 | 2317.3 | 2040.8 | 1957.9 | 1875.4 |
| 77.5°  | 1434.2 | 1669.1 | 1904.0 | 2139.0 | 2373.9 | 2145.8 | 1917.9 | 1689.7 | 1461.6 | 1404.0 | 1346.7 |
| 80°    | 679.9  | 815.3  | 950.5  | 1086.0 | 1221.4 | 1170.0 | 1118.6 | 1066.9 | 1015.4 | 1028.1 | 1040.7 |
| 82.5°  | 208.5  | 306.4  | 404.3  | 502.2  | 600.1  | 607.8  | 615.1  | 622.9  | 630.6  | 649.7  | 668.4  |
| 85°    | 69.9   | 95.8   | 121.6  | 147.5  | 173.4  | 218.9  | 264.5  | 310.3  | 356.0  | 326.3  | 297.1  |
| 87.5°  | 0.0    | 0.9    | 1.6    | 2.4    | 3.1    | 9.5    | 16.0   | 22.5   | 29.0   | 25.0   | 21.2   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P822994

CATALOG NUMBER: MSA-SA2A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 275° | 277.5° | 280° | 282.5° | 285° | 287.5° | 290° | 292.5° | 295° | 297.5° | 300° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 112.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 115°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 117.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 120°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 122.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 125°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 127.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 130°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 132.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 135°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 137.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 140°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 142.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 145°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 147.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 150°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 152.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 155°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 157.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 160°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 162.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 165°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 167.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 170°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 172.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 175°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 177.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 180°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |



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**CANDELA DISTRIBUTION (continued):**

|        | 302.5° | 305°   | 307.5° | 310°   | 312.5° | 315°   | 317.5° | 320°   | 322.5° | 325°   | 327.5° |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  |
| 2.5°   | 819.3  | 832.9  | 833.1  | 833.8  | 834.1  | 834.4  | 835.9  | 837.5  | 839.4  | 840.9  | 830.7  |
| 5°     | 1113.6 | 1123.5 | 1105.3 | 1087.2 | 1068.7 | 1050.6 | 1066.9 | 1083.2 | 1099.5 | 1115.8 | 1108.7 |
| 7.5°   | 1254.4 | 1248.3 | 1246.1 | 1244.2 | 1242.1 | 1240.2 | 1246.4 | 1252.5 | 1258.7 | 1264.8 | 1264.3 |
| 10°    | 1367.0 | 1395.1 | 1401.9 | 1408.7 | 1415.8 | 1422.5 | 1408.3 | 1394.1 | 1380.0 | 1365.8 | 1359.9 |
| 12.5°  | 1469.6 | 1497.9 | 1520.4 | 1542.9 | 1565.6 | 1588.1 | 1567.8 | 1547.8 | 1527.5 | 1507.4 | 1488.4 |
| 15°    | 1457.9 | 1477.3 | 1495.8 | 1514.2 | 1532.8 | 1551.2 | 1544.4 | 1538.0 | 1531.2 | 1524.4 | 1521.3 |
| 17.5°  | 1485.9 | 1497.6 | 1493.3 | 1489.0 | 1484.4 | 1480.0 | 1477.9 | 1476.0 | 1473.9 | 1471.7 | 1464.4 |
| 20°    | 1440.3 | 1451.4 | 1448.6 | 1446.2 | 1443.4 | 1440.6 | 1438.8 | 1437.0 | 1435.1 | 1433.3 | 1427.4 |
| 22.5°  | 1400.3 | 1382.8 | 1378.1 | 1373.8 | 1369.3 | 1364.9 | 1365.5 | 1366.1 | 1366.5 | 1367.0 | 1393.6 |
| 25°    | 1447.1 | 1403.7 | 1386.8 | 1369.8 | 1352.6 | 1335.6 | 1343.4 | 1350.7 | 1358.5 | 1366.1 | 1404.3 |
| 27.5°  | 1455.7 | 1390.5 | 1363.4 | 1336.3 | 1309.2 | 1282.1 | 1309.8 | 1337.5 | 1365.3 | 1392.9 | 1454.8 |
| 30°    | 1521.0 | 1456.1 | 1418.2 | 1380.6 | 1342.7 | 1305.2 | 1340.6 | 1376.0 | 1411.4 | 1446.8 | 1513.9 |
| 32.5°  | 1577.0 | 1531.5 | 1504.3 | 1477.3 | 1450.2 | 1423.1 | 1424.6 | 1425.9 | 1427.4 | 1429.0 | 1523.4 |
| 35°    | 1623.2 | 1555.8 | 1531.2 | 1506.9 | 1482.2 | 1457.9 | 1494.6 | 1531.2 | 1567.8 | 1604.5 | 1689.5 |
| 37.5°  | 1820.9 | 1775.6 | 1730.4 | 1685.5 | 1640.2 | 1595.2 | 1624.4 | 1653.7 | 1683.3 | 1712.6 | 1806.5 |
| 40°    | 1960.4 | 1886.5 | 1874.8 | 1863.4 | 1851.7 | 1840.3 | 1855.4 | 1870.2 | 1885.3 | 1900.4 | 1982.5 |
| 42.5°  | 2248.9 | 2199.3 | 2167.6 | 2136.2 | 2104.5 | 2073.1 | 2085.1 | 2097.1 | 2109.4 | 2121.4 | 2199.3 |
| 45°    | 2590.0 | 2555.8 | 2534.9 | 2514.0 | 2492.8 | 2471.8 | 2453.6 | 2435.8 | 2417.6 | 2399.8 | 2478.9 |
| 47.5°  | 2916.7 | 2933.0 | 2979.3 | 3025.1 | 3071.3 | 3117.1 | 3079.6 | 3042.0 | 3004.1 | 2966.6 | 2966.9 |
| 50°    | 3405.4 | 3520.8 | 3544.2 | 3567.3 | 3590.7 | 3613.8 | 3533.7 | 3453.7 | 3373.3 | 3293.3 | 3283.7 |
| 52.5°  | 3822.0 | 3981.1 | 3989.4 | 3997.8 | 4006.3 | 4014.6 | 3982.3 | 3950.0 | 3917.4 | 3885.1 | 3799.2 |
| 55°    | 4149.3 | 4318.2 | 4329.7 | 4340.8 | 4352.2 | 4363.2 | 4334.9 | 4306.9 | 4278.6 | 4250.2 | 4163.4 |
| 57.5°  | 4423.2 | 4576.0 | 4582.7 | 4589.2 | 4596.0 | 4602.8 | 4604.9 | 4607.0 | 4609.6 | 4611.7 | 4494.4 |
| 60°    | 4658.2 | 4822.6 | 4809.0 | 4795.8 | 4782.3 | 4769.0 | 4748.7 | 4728.4 | 4708.0 | 4687.7 | 4612.0 |
| 62.5°  | 4713.0 | 4838.0 | 4817.0 | 4796.4 | 4775.5 | 4754.9 | 4737.7 | 4720.7 | 4703.5 | 4686.2 | 4637.9 |
| 65°    | 4594.5 | 4645.0 | 4623.4 | 4601.8 | 4580.0 | 4558.4 | 4547.3 | 4536.6 | 4525.5 | 4514.4 | 4508.2 |
| 67.5°  | 3981.8 | 3954.9 | 3980.5 | 4006.1 | 4031.6 | 4057.2 | 4092.0 | 4126.7 | 4161.8 | 4196.7 | 4176.4 |
| 70°    | 3179.6 | 3111.6 | 3140.0 | 3168.0 | 3196.3 | 3224.3 | 3277.0 | 3329.6 | 3382.5 | 3435.2 | 3421.0 |
| 72.5°  | 2428.1 | 2341.9 | 2345.9 | 2349.9 | 2354.2 | 2358.2 | 2356.7 | 2355.5 | 2353.9 | 2352.4 | 2377.0 |
| 75°    | 1792.6 | 1709.8 | 1670.6 | 1631.5 | 1592.5 | 1553.3 | 1543.8 | 1534.3 | 1524.7 | 1515.2 | 1561.1 |
| 77.5°  | 1289.1 | 1231.9 | 1205.1 | 1178.7 | 1151.8 | 1125.4 | 1138.9 | 1152.5 | 1166.4 | 1179.9 | 1195.9 |
| 80°    | 1053.6 | 1066.2 | 1045.6 | 1025.3 | 1004.6 | 984.0  | 999.4  | 1014.5 | 1029.9 | 1045.3 | 997.6  |
| 82.5°  | 687.5  | 706.3  | 642.9  | 579.5  | 516.0  | 452.6  | 491.1  | 529.6  | 568.4  | 606.8  | 587.2  |
| 85°    | 267.6  | 238.3  | 203.2  | 168.4  | 133.3  | 98.2   | 127.8  | 157.3  | 186.9  | 216.4  | 236.2  |
| 87.5°  | 17.2   | 13.5   | 10.8   | 8.0    | 4.9    | 2.1    | 4.7    | 7.1    | 9.9    | 12.3   | 20.6   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P822994

CATALOG NUMBER: MSA-SA2A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 302.5° | 305° | 307.5° | 310° | 312.5° | 315° | 317.5° | 320° | 322.5° | 325° | 327.5° |
|--------|--------|------|--------|------|--------|------|--------|------|--------|------|--------|
| 112.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 115°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 117.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 120°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 122.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 125°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 127.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 130°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 132.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 135°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 137.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 140°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 142.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 145°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 147.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 150°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 152.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 155°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 157.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 160°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 162.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 165°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 167.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 170°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 172.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 175°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 177.5° | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |
| 180°   | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    |

REPORT NUMBER: P822994

CATALOG NUMBER: MSA-SA2A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 330°   | 332.5° | 335°   | 337.5° | 340°   | 342.5° | 345°   | 347.5° | 350°   | 352.5° | 355°   |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°     | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  | 650.9  |
| 2.5°   | 820.8  | 810.7  | 800.8  | 781.4  | 762.0  | 742.7  | 723.3  | 750.3  | 777.4  | 804.5  | 831.6  |
| 5°     | 1102.0 | 1094.9 | 1088.1 | 1090.0 | 1091.8 | 1094.0 | 1095.8 | 1099.8 | 1103.9 | 1107.5 | 1111.5 |
| 7.5°   | 1263.9 | 1263.3 | 1262.7 | 1248.5 | 1234.4 | 1219.9 | 1205.8 | 1212.9 | 1219.9 | 1227.0 | 1234.1 |
| 10°    | 1354.5 | 1348.6 | 1342.7 | 1311.6 | 1280.6 | 1249.2 | 1218.1 | 1204.5 | 1190.7 | 1177.1 | 1163.6 |
| 12.5°  | 1469.3 | 1449.8 | 1430.8 | 1397.6 | 1364.6 | 1331.3 | 1298.1 | 1285.8 | 1273.1 | 1260.8 | 1248.3 |
| 15°    | 1518.5 | 1515.4 | 1512.7 | 1489.0 | 1464.9 | 1441.3 | 1417.2 | 1375.0 | 1332.6 | 1290.4 | 1248.3 |
| 17.5°  | 1456.9 | 1449.3 | 1441.9 | 1479.5 | 1516.7 | 1554.3 | 1591.8 | 1548.1 | 1504.3 | 1460.7 | 1417.0 |
| 20°    | 1421.5 | 1415.8 | 1409.9 | 1479.8 | 1549.3 | 1619.2 | 1688.8 | 1669.4 | 1649.7 | 1630.3 | 1610.9 |
| 22.5°  | 1420.0 | 1446.8 | 1473.3 | 1534.5 | 1595.6 | 1656.8 | 1717.8 | 1751.3 | 1785.2 | 1818.8 | 1852.3 |
| 25°    | 1442.5 | 1481.0 | 1519.2 | 1620.8 | 1722.3 | 1824.3 | 1925.9 | 1964.4 | 2002.6 | 2041.0 | 2079.2 |
| 27.5°  | 1516.4 | 1578.3 | 1639.9 | 1728.6 | 1817.2 | 1906.2 | 1994.8 | 2079.0 | 2163.3 | 2247.4 | 2331.4 |
| 30°    | 1580.7 | 1647.9 | 1715.0 | 1820.6 | 1925.9 | 2031.5 | 2136.8 | 2242.1 | 2347.4 | 2452.7 | 2558.0 |
| 32.5°  | 1618.0 | 1712.8 | 1807.4 | 1935.8 | 2063.9 | 2192.2 | 2320.6 | 2436.1 | 2551.6 | 2666.7 | 2782.1 |
| 35°    | 1774.4 | 1859.7 | 1944.7 | 2086.6 | 2228.6 | 2370.8 | 2512.7 | 2655.6 | 2798.5 | 2941.1 | 3083.9 |
| 37.5°  | 1900.4 | 1994.6 | 2088.5 | 2243.7 | 2398.5 | 2553.7 | 2708.9 | 2906.2 | 3103.9 | 3301.3 | 3498.6 |
| 40°    | 2064.8 | 2147.0 | 2229.2 | 2374.5 | 2519.5 | 2664.8 | 2810.2 | 3060.5 | 3310.8 | 3560.9 | 3811.2 |
| 42.5°  | 2276.9 | 2354.8 | 2432.7 | 2588.2 | 2743.7 | 2899.1 | 3054.6 | 3331.8 | 3608.8 | 3885.7 | 4162.8 |
| 45°    | 2558.0 | 2637.5 | 2716.5 | 2840.4 | 2964.2 | 3087.9 | 3211.7 | 3506.4 | 3800.6 | 4095.3 | 4389.7 |
| 47.5°  | 2967.2 | 2967.5 | 2967.8 | 3057.1 | 3146.4 | 3236.0 | 3325.3 | 3622.2 | 3918.6 | 4215.4 | 4511.9 |
| 50°    | 3274.2 | 3264.3 | 3254.8 | 3300.9 | 3346.9 | 3393.1 | 3439.2 | 3712.3 | 3985.8 | 4258.8 | 4532.0 |
| 52.5°  | 3713.5 | 3627.7 | 3542.0 | 3569.4 | 3596.5 | 3623.9 | 3651.0 | 3882.3 | 4113.9 | 4345.1 | 4576.3 |
| 55°    | 4076.9 | 3990.0 | 3903.2 | 3893.1 | 3882.9 | 3872.8 | 3862.6 | 4075.4 | 4288.1 | 4500.8 | 4713.6 |
| 57.5°  | 4377.4 | 4260.1 | 4143.1 | 4119.6 | 4096.6 | 4073.1 | 4049.8 | 4274.3 | 4498.4 | 4722.8 | 4947.0 |
| 60°    | 4536.6 | 4460.8 | 4385.0 | 4369.9 | 4354.6 | 4339.5 | 4324.1 | 4508.2 | 4692.4 | 4876.5 | 5060.6 |
| 62.5°  | 4589.8 | 4541.5 | 4493.5 | 4521.8 | 4550.1 | 4578.7 | 4607.0 | 4688.1 | 4768.8 | 4849.7 | 4930.4 |
| 65°    | 4502.4 | 4496.3 | 4490.0 | 4548.3 | 4606.1 | 4664.3 | 4722.6 | 4702.5 | 4682.2 | 4662.2 | 4642.2 |
| 67.5°  | 4156.3 | 4136.0 | 4116.0 | 4243.7 | 4371.3 | 4499.0 | 4626.8 | 4529.8 | 4432.5 | 4335.5 | 4238.5 |
| 70°    | 3406.9 | 3392.4 | 3378.3 | 3562.3 | 3746.5 | 3930.9 | 4115.1 | 3997.4 | 3879.8 | 3762.2 | 3644.6 |
| 72.5°  | 2401.3 | 2425.9 | 2450.6 | 2667.6 | 2884.4 | 3101.5 | 3318.2 | 3199.7 | 3081.2 | 2962.6 | 2844.1 |
| 75°    | 1606.6 | 1652.5 | 1698.4 | 1921.9 | 2145.5 | 2369.2 | 2592.8 | 2453.6 | 2314.5 | 2175.3 | 2036.1 |
| 77.5°  | 1211.9 | 1227.9 | 1243.9 | 1385.2 | 1526.5 | 1668.2 | 1809.5 | 1694.7 | 1579.5 | 1464.7 | 1349.5 |
| 80°    | 949.9  | 901.8  | 854.1  | 900.6  | 947.1  | 993.6  | 1040.0 | 971.4  | 902.7  | 834.4  | 765.8  |
| 82.5°  | 567.4  | 547.8  | 528.0  | 553.3  | 578.2  | 603.5  | 628.7  | 599.2  | 569.3  | 539.8  | 509.9  |
| 85°    | 255.5  | 275.3  | 294.7  | 320.2  | 345.4  | 371.1  | 396.6  | 355.3  | 314.0  | 272.8  | 231.5  |
| 87.5°  | 28.6   | 37.0   | 45.3   | 56.1   | 66.8   | 77.6   | 88.4   | 68.9   | 49.3   | 29.9   | 10.4   |
| 90°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



REPORT NUMBER: P822994  
 CATALOG NUMBER: MSA-SA2A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 330° | 332.5° | 335° | 337.5° | 340° | 342.5° | 345° | 347.5° | 350° | 352.5° | 355° |
|--------|------|--------|------|--------|------|--------|------|--------|------|--------|------|
| 112.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 115°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 117.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 120°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 122.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 125°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 127.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 130°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 132.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 135°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 137.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 140°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 142.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 145°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 147.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 150°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 152.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 155°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 157.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 160°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 162.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 165°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 167.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 170°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 172.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 175°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 177.5° | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |
| 180°   | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  | 0.0    | 0.0  |



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 CATALOG NUMBER: MSA-SA2A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 357.5° | 360°   |
|--------|--------|--------|
| 0°     | 650.9  | 650.9  |
| 2.5°   | 847.3  | 863.0  |
| 5°     | 1111.2 | 1110.6 |
| 7.5°   | 1215.6 | 1196.8 |
| 10°    | 1146.3 | 1129.1 |
| 12.5°  | 1204.2 | 1160.1 |
| 15°    | 1215.0 | 1181.7 |
| 17.5°  | 1362.7 | 1308.2 |
| 20°    | 1541.1 | 1470.8 |
| 22.5°  | 1756.3 | 1659.8 |
| 25°    | 1964.7 | 1850.2 |
| 27.5°  | 2262.8 | 2193.7 |
| 30°    | 2488.4 | 2418.5 |
| 32.5°  | 2734.7 | 2687.3 |
| 35°    | 3036.8 | 2989.4 |
| 37.5°  | 3510.9 | 3522.9 |
| 40°    | 3818.5 | 3825.9 |
| 42.5°  | 4191.5 | 4220.1 |
| 45°    | 4421.7 | 4453.7 |
| 47.5°  | 4556.5 | 4601.3 |
| 50°    | 4604.0 | 4676.1 |
| 52.5°  | 4665.3 | 4754.0 |
| 55°    | 4812.5 | 4911.3 |
| 57.5°  | 5025.8 | 5104.6 |
| 60°    | 5064.3 | 5068.0 |
| 62.5°  | 4873.4 | 4816.5 |
| 65°    | 4581.5 | 4520.9 |
| 67.5°  | 4201.9 | 4164.9 |
| 70°    | 3596.0 | 3547.3 |
| 72.5°  | 2753.5 | 2663.0 |
| 75°    | 1924.0 | 1812.0 |
| 77.5°  | 1290.7 | 1231.9 |
| 80°    | 767.5  | 769.1  |
| 82.5°  | 524.0  | 537.9  |
| 85°    | 228.8  | 225.7  |
| 87.5°  | 7.4    | 4.0    |
| 90°    | 0.0    | 0.0    |
| 92.5°  | 0.0    | 0.0    |
| 95°    | 0.0    | 0.0    |
| 97.5°  | 0.0    | 0.0    |
| 100°   | 0.0    | 0.0    |
| 102.5° | 0.0    | 0.0    |
| 105°   | 0.0    | 0.0    |
| 107.5° | 0.0    | 0.0    |
| 110°   | 0.0    | 0.0    |

REPORT NUMBER: P822994

CATALOG NUMBER: MSA-SA2A-735-U-SLR-HSS

**CANDELA DISTRIBUTION (continued):**

|        | 357.5° | 360° |
|--------|--------|------|
| 112.5° | 0.0    | 0.0  |
| 115°   | 0.0    | 0.0  |
| 117.5° | 0.0    | 0.0  |
| 120°   | 0.0    | 0.0  |
| 122.5° | 0.0    | 0.0  |
| 125°   | 0.0    | 0.0  |
| 127.5° | 0.0    | 0.0  |
| 130°   | 0.0    | 0.0  |
| 132.5° | 0.0    | 0.0  |
| 135°   | 0.0    | 0.0  |
| 137.5° | 0.0    | 0.0  |
| 140°   | 0.0    | 0.0  |
| 142.5° | 0.0    | 0.0  |
| 145°   | 0.0    | 0.0  |
| 147.5° | 0.0    | 0.0  |
| 150°   | 0.0    | 0.0  |
| 152.5° | 0.0    | 0.0  |
| 155°   | 0.0    | 0.0  |
| 157.5° | 0.0    | 0.0  |
| 160°   | 0.0    | 0.0  |
| 162.5° | 0.0    | 0.0  |
| 165°   | 0.0    | 0.0  |
| 167.5° | 0.0    | 0.0  |
| 170°   | 0.0    | 0.0  |
| 172.5° | 0.0    | 0.0  |
| 175°   | 0.0    | 0.0  |
| 177.5° | 0.0    | 0.0  |
| 180°   | 0.0    | 0.0  |

Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

STREETWORKS

Report Number: SP1-2101-121-7

Luminaire Tested: IFLD-S-SA2A-735-U-T2

Test Date: 03/04/2021

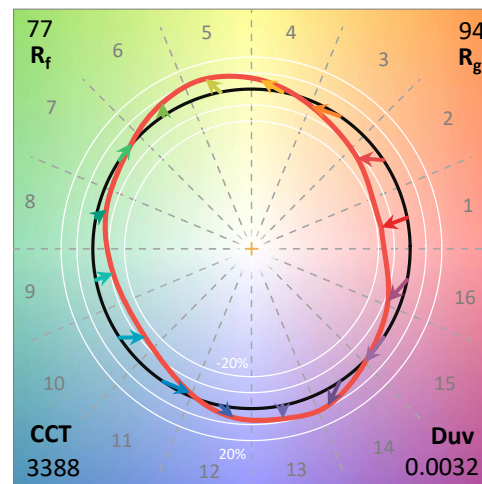
### Test Information

Test Method: LM-79-08  
 Report Number: SP1-2101-121-7  
 Test Lab: COOPER LIGHTING SOLUTIONS  
 Photometer: SP1  
 Measurement Geometry:  $4\pi$   
 Issue Date: 03/04/2021  
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
 Product Line: STREETWORKS  
 Catalog Number: **IFLD-S-SA2A-735-U-T2**  
 Description: STREETWORKS INF FLOOD

PROGRAMMED @ 615mA.

### Spectral Parameters

|                           |        |           |      |      |       |
|---------------------------|--------|-----------|------|------|-------|
| CCT (K):                  | 3388   | CRI (Ra): | 73.1 |      |       |
| CIE u':                   | 0.2371 | R1:       | 68.9 | R9:  | -34.6 |
| CIE v':                   | 0.5177 | R2:       | 81.1 | R10: | 57.8  |
| Duv:                      | 0.0032 | R3:       | 93.1 | R11: | 68.6  |
| CIE x:                    | 0.4153 | R4:       | 71.6 | R12: | 53.9  |
| CIE y:                    | 0.4030 | R5:       | 69.4 | R13: | 70.9  |
| CIE z:                    | 0.1817 | R6:       | 75.0 | R14: | 96.2  |
| Peak Wavelength (nm):     | 590    | R7:       | 79.5 |      |       |
| Dominant Wavelength (nm): | 580    | R8:       | 46.4 |      |       |
| Purity:                   | 45.7   |           |      |      |       |
| Rf:                       | 76.9   |           |      |      |       |
| Rg:                       | 94.4   |           |      |      |       |



### Test Conditions

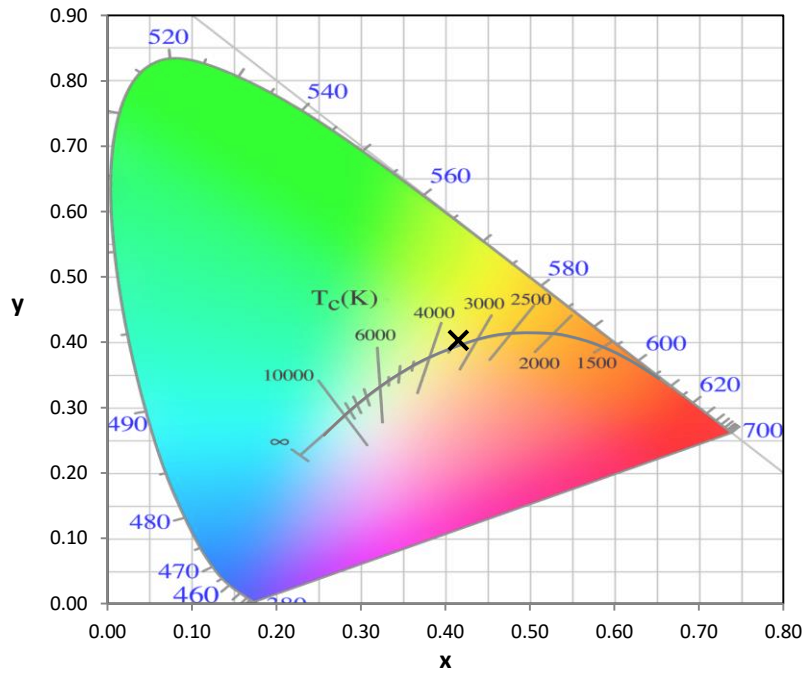
Stabilization Time: 81M  
 Operation Time: 12H  
 Room Temperature (°C) / RH%: 25.0/30%  
 Sphere Temperature (°C): 24.1

REPORT NUMBER: SP1-2101-121-7

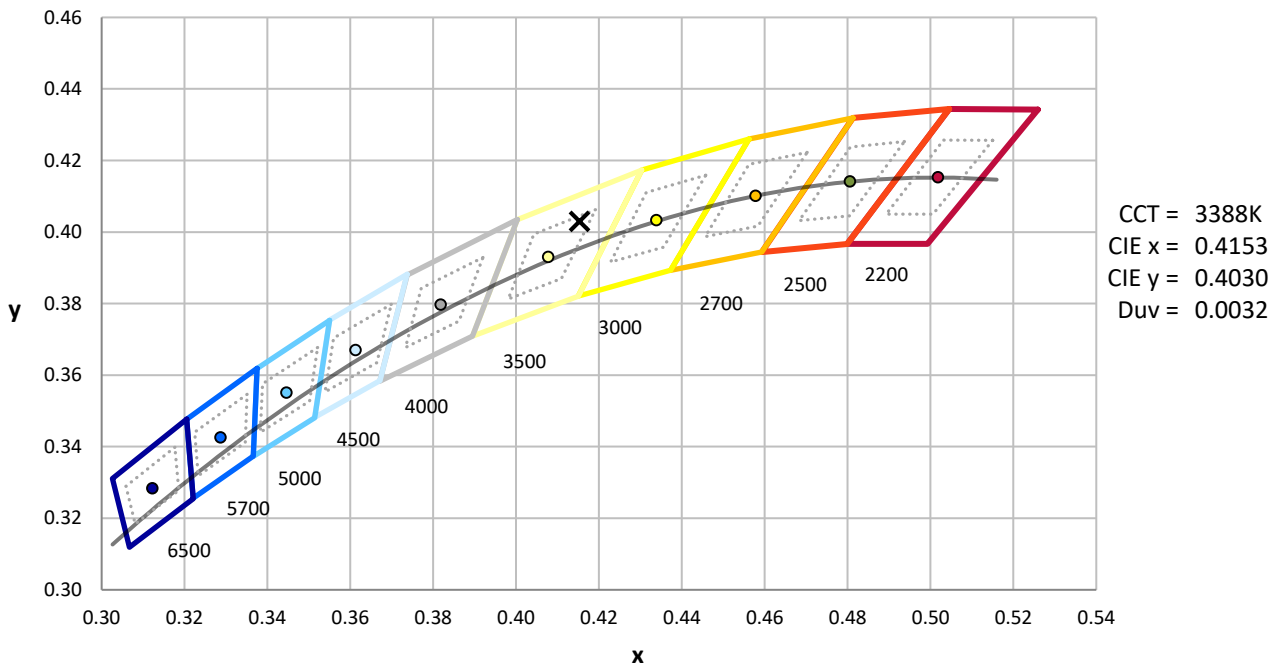
| Measurement and Test Equipment |                       |                  |                      |
|--------------------------------|-----------------------|------------------|----------------------|
| Instrument                     | Identification Number | Calibration Date | Calibration Due Date |
| Photometer                     | IN0058                | 1/31/2021        | 7/31/2021            |
| Power Meter                    | IN0071                | 12/1/2020        | 12/1/2021            |
| AC Power Source                | IN0063                | 12/1/2020        | 12/1/2021            |
| DC Power Source                | IN0208                | 12/1/2020        | 12/1/2021            |
| Sphere Thermometer             | IN0085                | 12/1/2020        | 12/1/2021            |
| Room Thermometer               | IN0046                | 12/1/2020        | 12/1/2021            |

REPORT NUMBER: SP1-2101-121-7

**CIE 1931 Chromaticity Diagram**



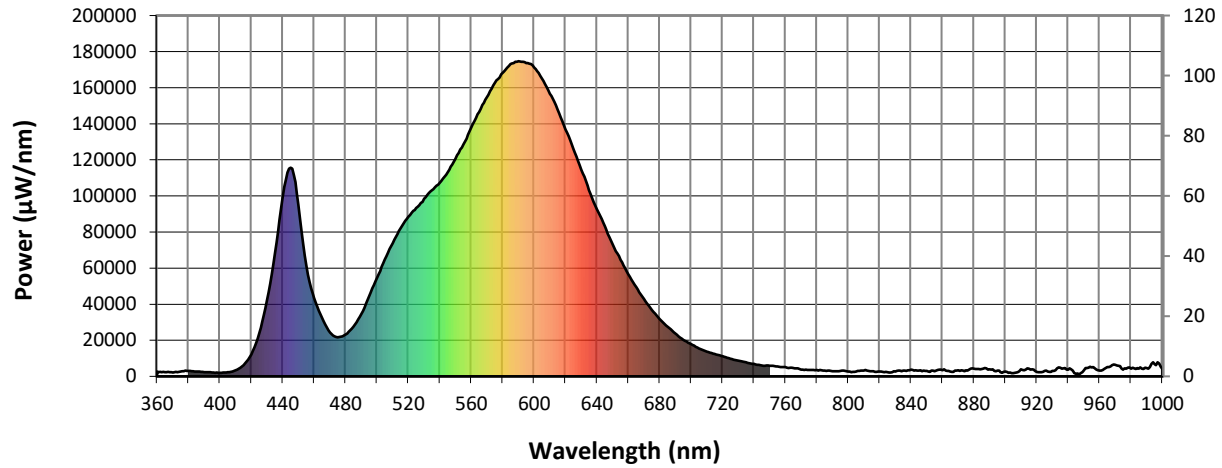
**CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles**



Point lies inside the ANSI 3500K 4-step quadrangle

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### Photopic Flux vs. Wavelength

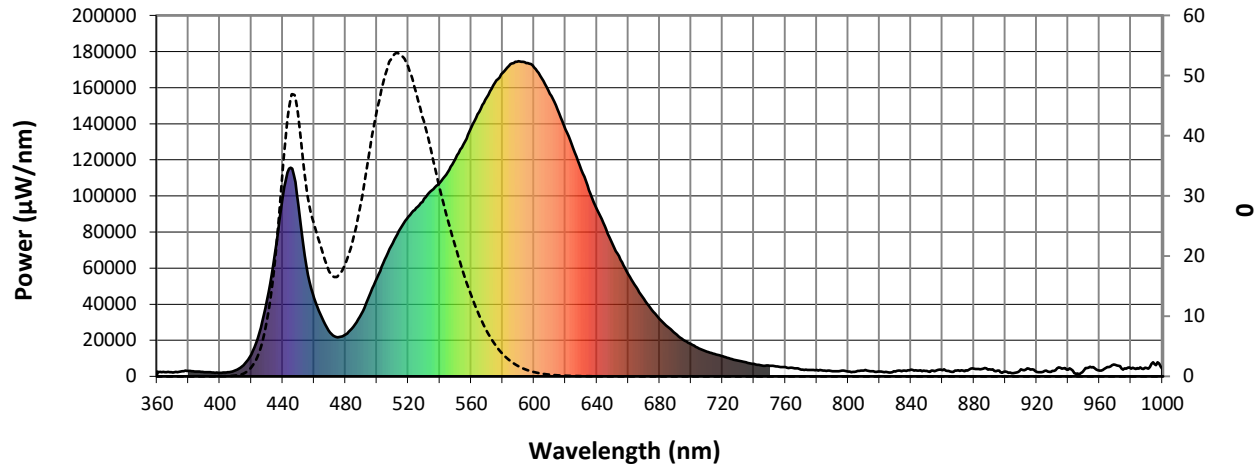


#####

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 2672             | 0.0              | 490       | 34553            | 4.9              | 620       | 136720           | 35.6             | 750       | 5870             | 0.0              | 880       | 4216             | 0.0              |
| 365       | 2252             | 0.0              | 495       | 44336            | 8.0              | 625       | 126308           | 27.9             | 755       | 5421             | 0.0              | 885       | 4132             | 0.0              |
| 370       | 2217             | 0.0              | 500       | 54643            | 12.1             | 630       | 114625           | 20.7             | 760       | 5097             | 0.0              | 890       | 3992             | 0.0              |
| 375       | 2697             | 0.0              | 505       | 64676            | 18.1             | 635       | 103216           | 15.5             | 765       | 4626             | 0.0              | 895       | 3214             | 0.0              |
| 380       | 3039             | 0.0              | 510       | 73825            | 25.4             | 640       | 92605            | 11.1             | 770       | 3782             | 0.0              | 900       | 2580             | 0.0              |
| 385       | 2655             | 0.0              | 515       | 81872            | 33.9             | 645       | 83234            | 8.0              | 775       | 3506             | 0.0              | 905       | 1776             | 0.0              |
| 390       | 2357             | 0.0              | 520       | 88574            | 43.0             | 650       | 73263            | 5.4              | 780       | 3507             | 0.0              | 910       | 3995             | 0.0              |
| 395       | 2186             | 0.0              | 525       | 93289            | 50.1             | 655       | 64627            | 3.7              | 785       | 3267             | 0.0              | 915       | 4288             | 0.0              |
| 400       | 2015             | 0.0              | 530       | 98393            | 57.9             | 660       | 56614            | 2.4              | 790       | 2849             | 0.0              | 920       | 2446             | 0.0              |
| 405       | 2234             | 0.0              | 535       | 103269           | 64.0             | 665       | 49537            | 1.6              | 795       | 3037             | 0.0              | 925       | 3009             | 0.0              |
| 410       | 3412             | 0.0              | 540       | 107316           | 69.9             | 670       | 42866            | 0.9              | 800       | 2716             | 0.0              | 930       | 3026             | 0.0              |
| 415       | 6135             | 0.0              | 545       | 113101           | 75.3             | 675       | 36708            | 0.6              | 805       | 2648             | 0.0              | 935       | 4734             | 0.0              |
| 420       | 12146            | 0.0              | 550       | 120690           | 82.0             | 680       | 31814            | 0.4              | 810       | 3187             | 0.0              | 940       | 3719             | 0.0              |
| 425       | 23983            | 0.1              | 555       | 128583           | 87.8             | 685       | 27485            | 0.2              | 815       | 2931             | 0.0              | 945       | 1480             | 0.0              |
| 430       | 42142            | 0.3              | 560       | 137796           | 93.6             | 690       | 23698            | 0.1              | 820       | 2717             | 0.0              | 950       | 3450             | 0.0              |
| 435       | 68228            | 0.8              | 565       | 146577           | 97.5             | 695       | 20309            | 0.1              | 825       | 2236             | 0.0              | 955       | 5051             | 0.0              |
| 440       | 99323            | 1.6              | 570       | 154581           | 100.5            | 700       | 17890            | 0.1              | 830       | 2628             | 0.0              | 960       | 3176             | 0.0              |
| 445       | 115584           | 2.4              | 575       | 162633           | 101.2            | 705       | 15500            | 0.0              | 835       | 3140             | 0.0              | 965       | 5178             | 0.0              |
| 450       | 94997            | 2.5              | 580       | 168101           | 99.9             | 710       | 13699            | 0.0              | 840       | 3675             | 0.0              | 970       | 6385             | 0.0              |
| 455       | 61433            | 2.1              | 585       | 173145           | 96.2             | 715       | 12398            | 0.0              | 845       | 3283             | 0.0              | 975       | 3810             | 0.0              |
| 460       | 43373            | 1.8              | 590       | 174675           | 90.3             | 720       | 11147            | 0.0              | 850       | 3055             | 0.0              | 980       | 4322             | 0.0              |
| 465       | 32472            | 1.7              | 595       | 173724           | 82.3             | 725       | 9761             | 0.0              | 855       | 2932             | 0.0              | 985       | 4200             | 0.0              |
| 470       | 24257            | 1.5              | 600       | 171241           | 73.8             | 730       | 8651             | 0.0              | 860       | 3382             | 0.0              | 990       | 4661             | 0.0              |
| 475       | 21690            | 1.7              | 605       | 165134           | 64.0             | 735       | 7730             | 0.0              | 865       | 2605             | 0.0              | 995       | 6746             | 0.0              |
| 480       | 23173            | 2.2              | 610       | 156652           | 53.8             | 740       | 6847             | 0.0              | 870       | 3325             | 0.0              | 1000      | 4150             | 0.0              |
| 485       | 27564            | 3.3              | 615       | 147879           | 44.6             | 745       | 6124             | 0.0              | 875       | 3325             | 0.0              |           |                  |                  |

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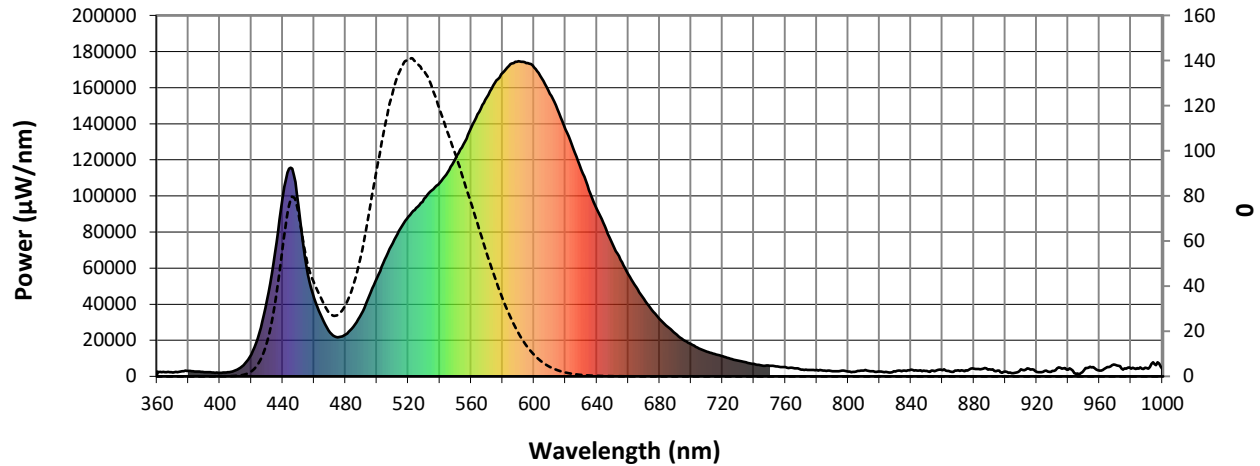
### Scotopic Flux vs. Wavelength


**Scotopic Lumens: 12126**
**S/P: 1.36**

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 2672             | 0.0              | 490       | 34553            | 53.2             | 620       | 136720           | 1.7              | 750       | 5870             | 0.0              | 880       | 4216             | 0.0              |
| 365       | 2252             | 0.0              | 495       | 44336            | 71.7             | 625       | 126308           | 1.1              | 755       | 5421             | 0.0              | 885       | 4132             | 0.0              |
| 370       | 2217             | 0.0              | 500       | 54643            | 91.4             | 630       | 114625           | 0.6              | 760       | 5097             | 0.0              | 890       | 3992             | 0.0              |
| 375       | 2697             | 0.0              | 505       | 64676            | 110.0            | 635       | 103216           | 0.4              | 765       | 4626             | 0.0              | 895       | 3214             | 0.0              |
| 380       | 3039             | 0.0              | 510       | 73825            | 125.1            | 640       | 92605            | 0.2              | 770       | 3782             | 0.0              | 900       | 2580             | 0.0              |
| 385       | 2655             | 0.0              | 515       | 81872            | 135.7            | 645       | 83234            | 0.1              | 775       | 3506             | 0.0              | 905       | 1776             | 0.0              |
| 390       | 2357             | 0.0              | 520       | 88574            | 140.8            | 650       | 73263            | 0.1              | 780       | 3507             | 0.0              | 910       | 3995             | 0.0              |
| 395       | 2186             | 0.0              | 525       | 93289            | 139.6            | 655       | 64627            | 0.1              | 785       | 3267             | 0.0              | 915       | 4288             | 0.0              |
| 400       | 2015             | 0.0              | 530       | 98393            | 135.7            | 660       | 56614            | 0.0              | 790       | 2849             | 0.0              | 920       | 2446             | 0.0              |
| 405       | 2234             | 0.1              | 535       | 103269           | 128.7            | 665       | 49537            | 0.0              | 795       | 3037             | 0.0              | 925       | 3009             | 0.0              |
| 410       | 3412             | 0.2              | 540       | 107316           | 118.6            | 670       | 42866            | 0.0              | 800       | 2716             | 0.0              | 930       | 3026             | 0.0              |
| 415       | 6135             | 0.6              | 545       | 113101           | 108.4            | 675       | 36708            | 0.0              | 805       | 2648             | 0.0              | 935       | 4734             | 0.0              |
| 420       | 12146            | 2.0              | 550       | 120690           | 98.7             | 680       | 31814            | 0.0              | 810       | 3187             | 0.0              | 940       | 3719             | 0.0              |
| 425       | 23983            | 5.9              | 555       | 128583           | 87.9             | 685       | 27485            | 0.0              | 815       | 2931             | 0.0              | 945       | 1480             | 0.0              |
| 430       | 42142            | 14.3             | 560       | 137796           | 77.0             | 690       | 23698            | 0.0              | 820       | 2717             | 0.0              | 950       | 3450             | 0.0              |
| 435       | 68228            | 30.5             | 565       | 146577           | 65.8             | 695       | 20309            | 0.0              | 825       | 2236             | 0.0              | 955       | 5051             | 0.0              |
| 440       | 99323            | 55.5             | 570       | 154581           | 54.6             | 700       | 17890            | 0.0              | 830       | 2628             | 0.0              | 960       | 3176             | 0.0              |
| 445       | 115584           | 77.4             | 575       | 162633           | 44.3             | 705       | 15500            | 0.0              | 835       | 3140             | 0.0              | 965       | 5178             | 0.0              |
| 450       | 94997            | 73.6             | 580       | 168101           | 34.6             | 710       | 13699            | 0.0              | 840       | 3675             | 0.0              | 970       | 6385             | 0.0              |
| 455       | 61433            | 53.7             | 585       | 173145           | 26.5             | 715       | 12398            | 0.0              | 845       | 3283             | 0.0              | 975       | 3810             | 0.0              |
| 460       | 43373            | 41.9             | 590       | 174675           | 19.5             | 720       | 11147            | 0.0              | 850       | 3055             | 0.0              | 980       | 4322             | 0.0              |
| 465       | 32472            | 34.3             | 595       | 173724           | 13.9             | 725       | 9761             | 0.0              | 855       | 2932             | 0.0              | 985       | 4200             | 0.0              |
| 470       | 24257            | 27.9             | 600       | 171241           | 9.7              | 730       | 8651             | 0.0              | 860       | 3382             | 0.0              | 990       | 4661             | 0.0              |
| 475       | 21690            | 27.1             | 605       | 165134           | 6.5              | 735       | 7730             | 0.0              | 865       | 2605             | 0.0              | 995       | 6746             | 0.0              |
| 480       | 23173            | 31.3             | 610       | 156652           | 4.2              | 740       | 6847             | 0.0              | 870       | 3325             | 0.0              | 1000      | 4150             | 0.0              |
| 485       | 27564            | 40.0             | 615       | 147879           | 2.7              | 745       | 6124             | 0.0              | 875       | 3325             | 0.0              |           |                  |                  |

REPORT NUMBER: SP1-2101-121-7

### Melanopic Flux vs. Wavelength



**Melanopic Lumens: 4490.7**

**M/P: 0.5**

| λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) | λ<br>(nm) | Power<br>(μW/nm) | Lumens<br>(Φ/nm) |
|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|
| 360       | 2672             | 0.0              | 490       | 34553            | 28.8             | 620       | 136720           | 0.1              | 750       | 5870             | 0.0              | 880       | 4216             | 0.0              |
| 365       | 2252             | 0.0              | 495       | 44336            | 36.6             | 625       | 126308           | 0.1              | 755       | 5421             | 0.0              | 885       | 4132             | 0.0              |
| 370       | 2217             | 0.0              | 500       | 54643            | 43.9             | 630       | 114625           | 0.0              | 760       | 5097             | 0.0              | 890       | 3992             | 0.0              |
| 375       | 2697             | 0.0              | 505       | 64676            | 49.6             | 635       | 103216           | 0.0              | 765       | 4626             | 0.0              | 895       | 3214             | 0.0              |
| 380       | 3039             | 0.0              | 510       | 73825            | 53.0             | 640       | 92605            | 0.0              | 770       | 3782             | 0.0              | 900       | 2580             | 0.0              |
| 385       | 2655             | 0.0              | 515       | 81872            | 53.5             | 645       | 83234            | 0.0              | 775       | 3506             | 0.0              | 905       | 1776             | 0.0              |
| 390       | 2357             | 0.0              | 520       | 88574            | 51.6             | 650       | 73263            | 0.0              | 780       | 3507             | 0.0              | 910       | 3995             | 0.0              |
| 395       | 2186             | 0.0              | 525       | 93289            | 47.3             | 655       | 64627            | 0.0              | 785       | 3267             | 0.0              | 915       | 4288             | 0.0              |
| 400       | 2015             | 0.0              | 530       | 98393            | 42.5             | 660       | 56614            | 0.0              | 790       | 2849             | 0.0              | 920       | 2446             | 0.0              |
| 405       | 2234             | 0.0              | 535       | 103269           | 37.2             | 665       | 49537            | 0.0              | 795       | 3037             | 0.0              | 925       | 3009             | 0.0              |
| 410       | 3412             | 0.1              | 540       | 107316           | 31.4             | 670       | 42866            | 0.0              | 800       | 2716             | 0.0              | 930       | 3026             | 0.0              |
| 415       | 6135             | 0.4              | 545       | 113101           | 26.3             | 675       | 36708            | 0.0              | 805       | 2648             | 0.0              | 935       | 4734             | 0.0              |
| 420       | 12146            | 1.4              | 550       | 120690           | 21.7             | 680       | 31814            | 0.0              | 810       | 3187             | 0.0              | 940       | 3719             | 0.0              |
| 425       | 23983            | 3.7              | 555       | 128583           | 17.3             | 685       | 27485            | 0.0              | 815       | 2931             | 0.0              | 945       | 1480             | 0.0              |
| 430       | 42142            | 8.9              | 560       | 137796           | 13.6             | 690       | 23698            | 0.0              | 820       | 2717             | 0.0              | 950       | 3450             | 0.0              |
| 435       | 68228            | 18.2             | 565       | 146577           | 10.3             | 695       | 20309            | 0.0              | 825       | 2236             | 0.0              | 955       | 5051             | 0.0              |
| 440       | 99323            | 33.2             | 570       | 154581           | 7.6              | 700       | 17890            | 0.0              | 830       | 2628             | 0.0              | 960       | 3176             | 0.0              |
| 445       | 115584           | 45.6             | 575       | 162633           | 5.4              | 705       | 15500            | 0.0              | 835       | 3140             | 0.0              | 965       | 5178             | 0.0              |
| 450       | 94997            | 43.8             | 580       | 168101           | 3.8              | 710       | 13699            | 0.0              | 840       | 3675             | 0.0              | 970       | 6385             | 0.0              |
| 455       | 61433            | 32.2             | 585       | 173145           | 2.6              | 715       | 12398            | 0.0              | 845       | 3283             | 0.0              | 975       | 3810             | 0.0              |
| 460       | 43373            | 25.6             | 590       | 174675           | 1.7              | 720       | 11147            | 0.0              | 850       | 3055             | 0.0              | 980       | 4322             | 0.0              |
| 465       | 32472            | 21.2             | 595       | 173724           | 1.1              | 725       | 9761             | 0.0              | 855       | 2932             | 0.0              | 985       | 4200             | 0.0              |
| 470       | 24257            | 17.4             | 600       | 171241           | 0.7              | 730       | 8651             | 0.0              | 860       | 3382             | 0.0              | 990       | 4661             | 0.0              |
| 475       | 21690            | 16.6             | 605       | 165134           | 0.5              | 735       | 7730             | 0.0              | 865       | 2605             | 0.0              | 995       | 6746             | 0.0              |
| 480       | 23173            | 18.6             | 610       | 156652           | 0.3              | 740       | 6847             | 0.0              | 870       | 3325             | 0.0              | 1000      | 4150             | 0.0              |
| 485       | 27564            | 22.7             | 615       | 147879           | 0.2              | 745       | 6124             | 0.0              | 875       | 3325             | 0.0              |           |                  |                  |

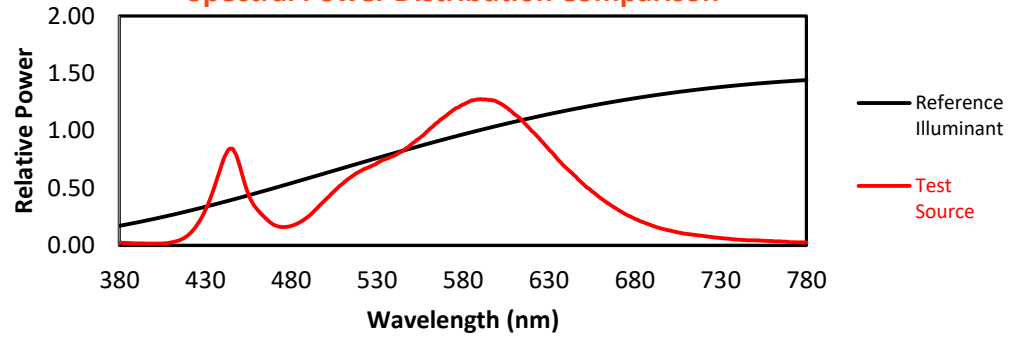
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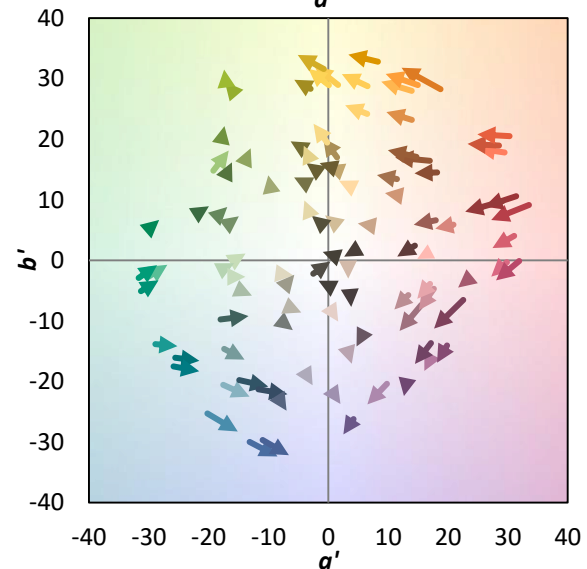
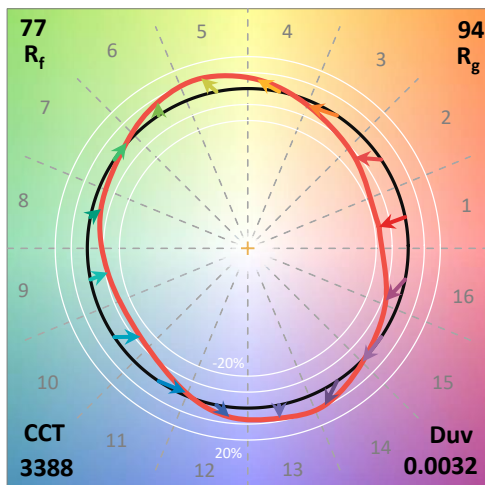
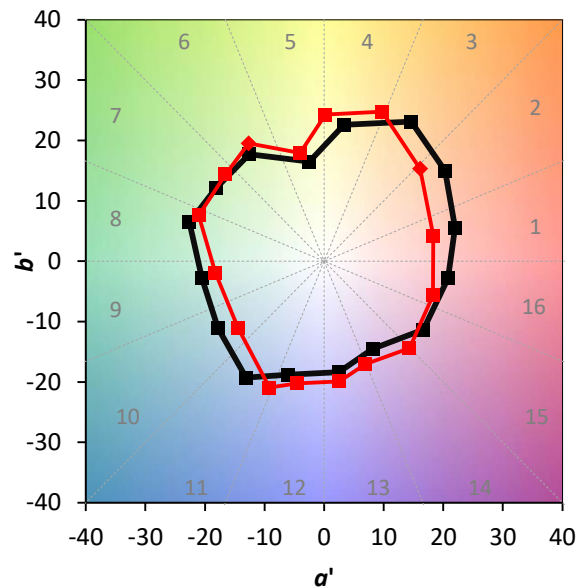
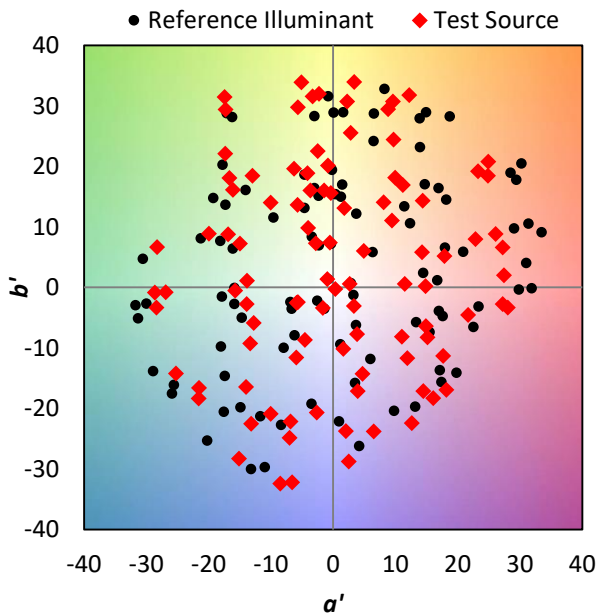
### Summary

$R_f = 76.9$   
 $R_g = 94.4$   
 CIE  $R_a = 73.1$   
 $R_g = -34.6$

### Spectral Power Distribution Comparison

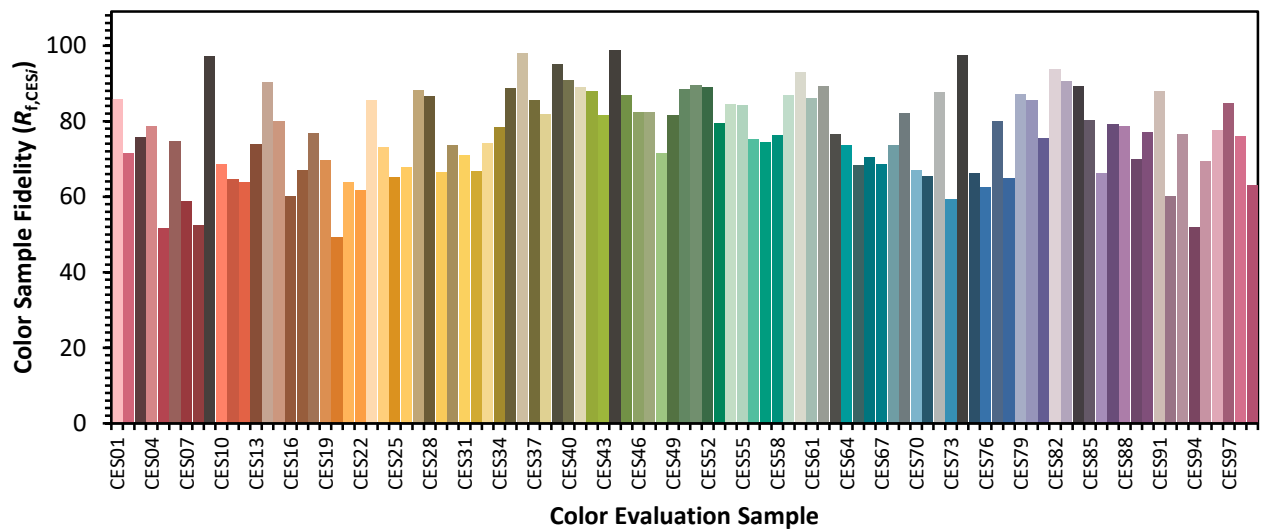


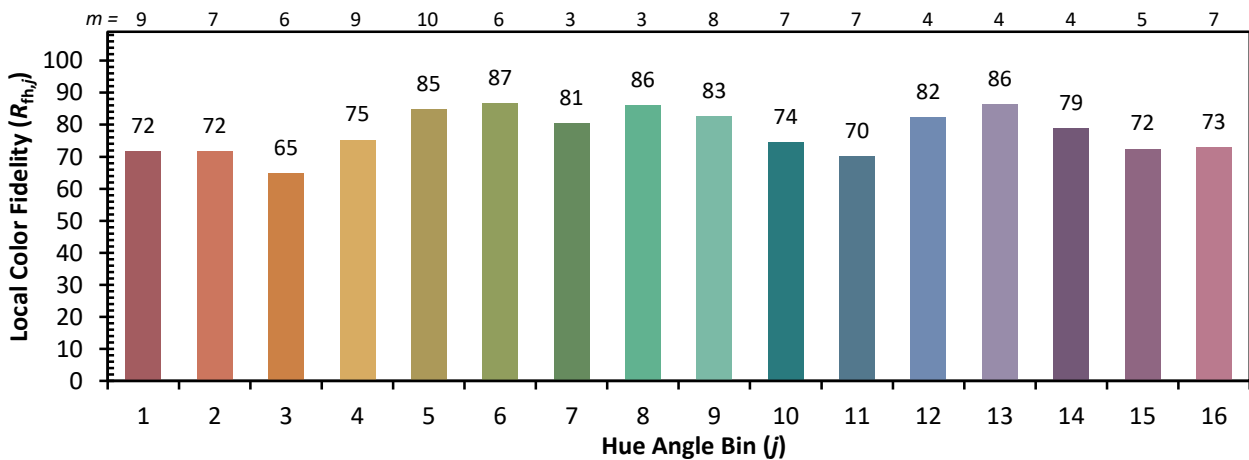
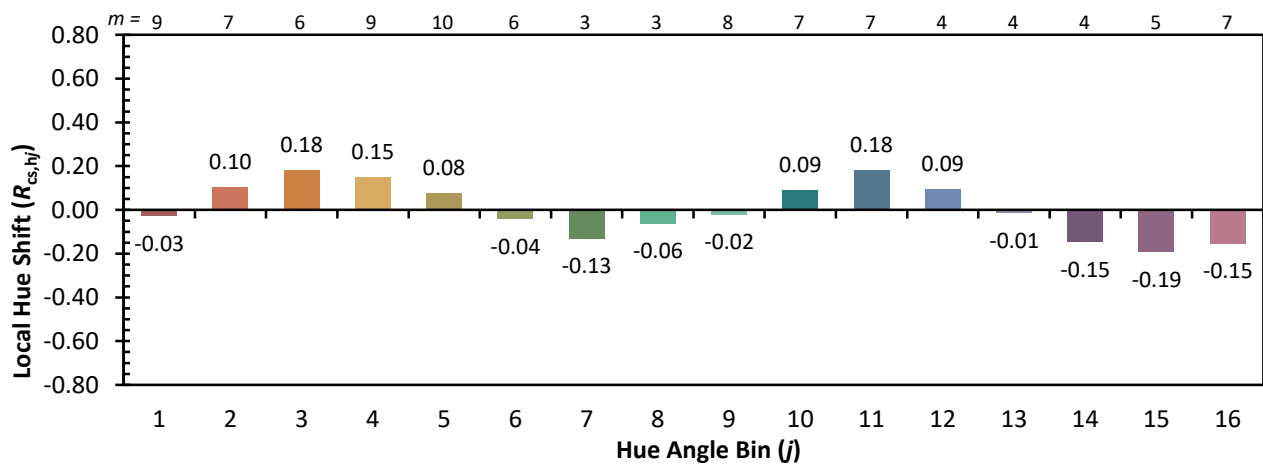
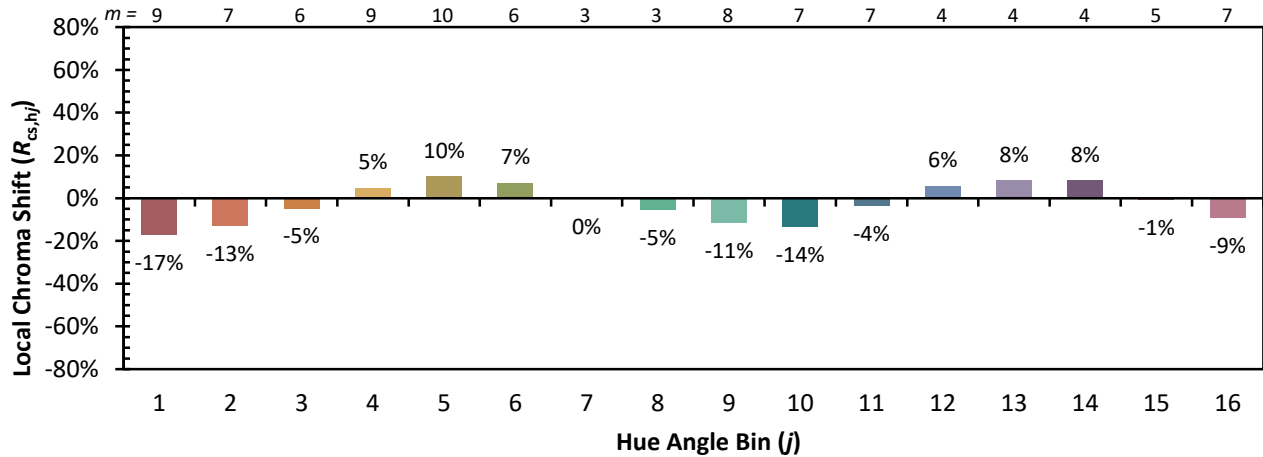
### Color Vector Graphics



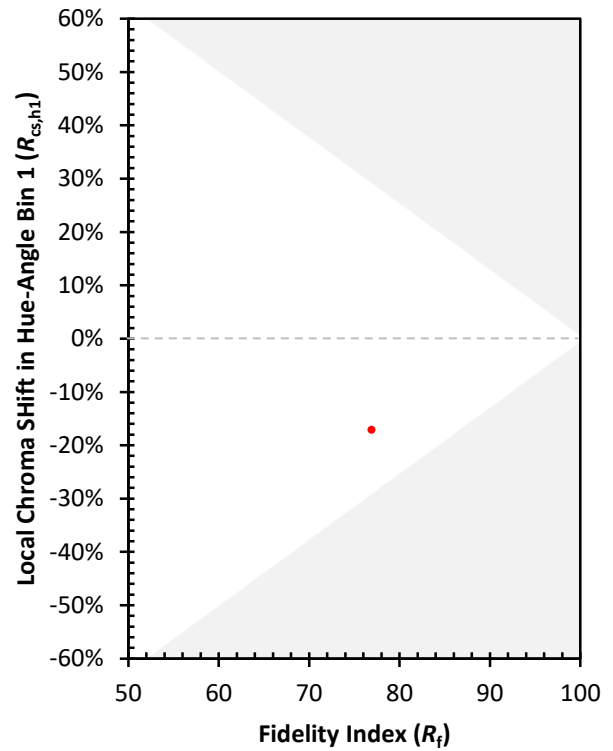
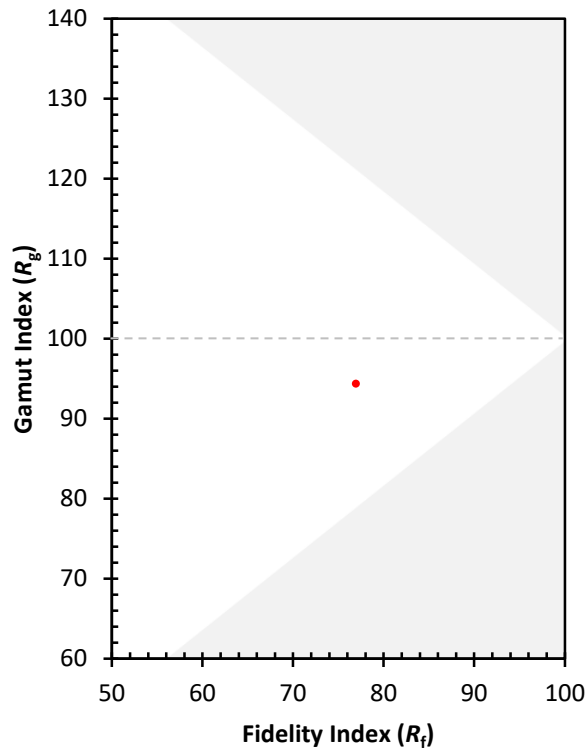
Individual Sample Fidelity Index ( $R_{f,i}$ )

|            |            |            |            |
|------------|------------|------------|------------|
| CES01 = 86 | CES26 = 68 | CES51 = 90 | CES76 = 63 |
| CES02 = 62 | CES27 = 88 | CES52 = 89 | CES77 = 80 |
| CES03 = 31 | CES28 = 87 | CES53 = 80 | CES78 = 65 |
| CES04 = 70 | CES29 = 67 | CES54 = 84 | CES79 = 87 |
| CES05 = 48 | CES30 = 74 | CES55 = 84 | CES80 = 86 |
| CES06 = 51 | CES31 = 71 | CES56 = 75 | CES81 = 75 |
| CES07 = 40 | CES32 = 67 | CES57 = 74 | CES82 = 94 |
| CES08 = 39 | CES33 = 74 | CES58 = 76 | CES83 = 91 |
| CES09 = 29 | CES34 = 78 | CES59 = 87 | CES84 = 89 |
| CES10 = 75 | CES35 = 89 | CES60 = 93 | CES85 = 80 |
| CES11 = 58 | CES36 = 98 | CES61 = 86 | CES86 = 66 |
| CES12 = 64 | CES37 = 86 | CES62 = 89 | CES87 = 79 |
| CES13 = 43 | CES38 = 82 | CES63 = 77 | CES88 = 79 |
| CES14 = 74 | CES39 = 95 | CES64 = 74 | CES89 = 70 |
| CES15 = 71 | CES40 = 91 | CES65 = 68 | CES90 = 77 |
| CES16 = 47 | CES41 = 89 | CES66 = 71 | CES91 = 88 |
| CES17 = 50 | CES42 = 88 | CES67 = 69 | CES92 = 60 |
| CES18 = 56 | CES43 = 82 | CES68 = 74 | CES93 = 77 |
| CES19 = 72 | CES44 = 99 | CES69 = 82 | CES94 = 52 |
| CES20 = 65 | CES45 = 87 | CES70 = 67 | CES95 = 69 |
| CES21 = 86 | CES46 = 82 | CES71 = 66 | CES96 = 78 |
| CES22 = 79 | CES47 = 82 | CES72 = 88 | CES97 = 85 |
| CES23 = 92 | CES48 = 72 | CES73 = 59 | CES98 = 76 |
| CES24 = 91 | CES49 = 82 | CES74 = 97 | CES99 = 63 |
| CES25 = 72 | CES50 = 88 | CES75 = 66 |            |



**Color Rendition by Hue-Angle Bin**


**Measure Comparisons**



(END OF REPORT)